#### **DESIGN AND DEVELOPMENT CONTACTS**

OWNER: 2804 RIDGE, LLC 8214 WESTCHESTER DR, SUITE 550

DEVELOPER: PANERA, LLC

3630 SOUTH GEYER ROAD, SUITE 100

ST. LOUIS, MO 63127 314-984-2646

DALLAS, TX 75225

CIVIL ENGINEER: COLE

ARCHITECT:

POWER HOUSE AT UNION STATION 401 S. 18TH STREET, SUITE 200

ST. LOUIS, MO 63103

314-984-9887

WHA DESIGN, INC. 9867 SOUTHWEST 184TH STREET PALMETTO BAY, FL 33157

305-615-1716

SURVEYOR: COOMBS LAND SURVEYING, INC. P.O. BOX 11370

FORT WORTH, TEXAS 76110 817-920-7600

LANDSCAPE ARCHITECT: CO

POWER HOUSE AT UNION STATION 401 S. 18TH STREET, SUITE 200 ST. LOUIS, MO 63103

### **AGENCY CONTACTS**

ZONING DEPARTMENT: CITY OF ROCKWALL PLANNING DEPARTMENT

385 S. GOLIAD STREET ROCKWALL. TX 75087

RYAN MILLER, DIRECTOR OF PLANNING

972-771-7745 RMILLER@ROCKWALL.COM

BUILDING DEPARTMENT: CITY OF ROCKWALL BUILDING INSPECTIONS DEPARTMENT

314-984-9887

385 S. GOLIAD STREET ROCKWALL, TX 75087 JOHN ANKRUM, PLANS EXAMINER 972-772-6774

CITY OF ROCKWALL FIRE DEPARTMENT

STATION 1
305 E. BOYDSTUN
ROCKWALL, TX 75087
ARIANA HARGROVE
972-771-7770

JANKRUM@ROCKWALL.COM

AHARGROVE@ROCKWALL.COM

ENGINEERING: CITY OF ROCKWALL ENGINEERING DEPARTMENT

ROCKWALL, TX 75087

AMY WILLIAMS, ASSISTANT CITY ENGINEER

972-771-7746 AWILLIAMS@ROCKWALL.COM

**UTILITY CONTACTS** 

WATER SERVICE: CITY OF ROCKWALL ENGINEERING DEPARTMENT

385 S. GOLIAD STREET

ROCKWALL, TX 75087

AMY WILLIAMS, ASSISTANT CITY ENGINEER

972-771-7746

AWILLIAMS@ROCKWALL.COM

SANITARY SEWER SERVICE:

FIRE DEPARTMENT:

CITY OF ROCKWALL ENGINEERING DEPARTMENT 385 S. GOLIAD STREET

ROCKWALL, TX 75087

AMY WILLIAMS, ASSISTANT CITY ENGINEER

972-771-7746 AWILLIAMS@ROCKWALL.COM

STORM SEWER SERVICE:

CITY OF ROCKWALL ENGINEERING DEPARTMENT

385 S. GOLIAD STREET ROCKWALL, TX 75087

AMY WILLIAMS, ASSISTANT CITY ENGINEER

972-771-7746 AWILLIAMS@ROCKWALL.COM

ELECTRIC SERVICE: ONCOR MTN ELECTRIC OPERATIONS

310 HIGHWAY 205 N

TERRELL, TX 75160
PHILLIP DICKERSON, SR. PROJECT DESIGNER

972-551-6712 PHILLIP.DICKERSON@ONCOR.COM

GAS SERVICE: ATMOS ENERGY

DINAH WOOD, PROJECT SPECIALIST 972-485-6277

DINAH.WOOD@ATMOSENERGY.COM

TELEPHONE SERVICE: AT&T

2702 WESLEY STREET

GREENVILLE, TX 75401
SCOTT ULRICH, PLANNING/ENGINEERING DESIGN

903-457-2303

SU6782@ATT.COM

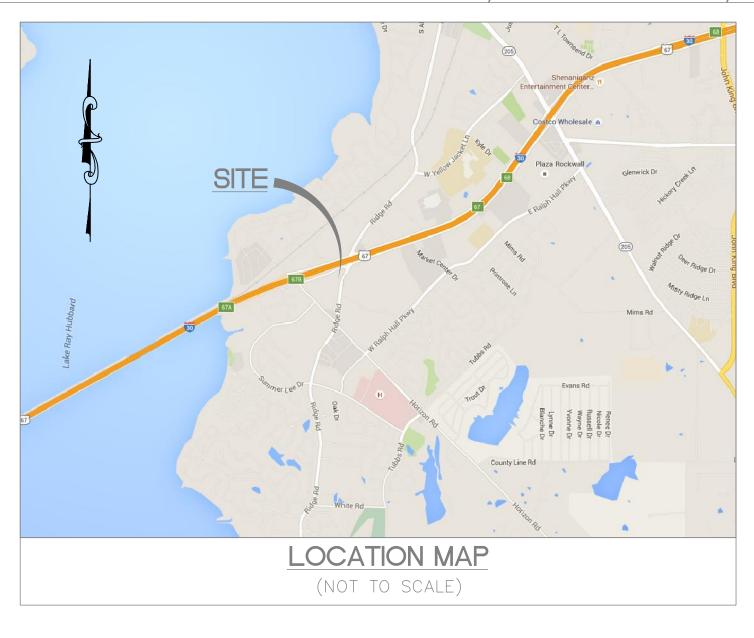
# PANERA CAFE #1982

BEING ALL OF LOT 2, ROAD RUNNER ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS, ACCORDING TO THE PLAT RECORDED IN CLERK'S FILE NO. 20150000003969 OF THE OFFICIAL PUBLIC RECORDS OF ROCKWALL COUNTY, TEXAS

"AS-BUILT DRAWINGS" 8/30/17

SITE IMPROVEMENT PLANS

CARLISLE PLAZA ADDN, TRACT 1, LOT 1



### PERTINENT DATA

SITE ADDRESS = 2804 RIDGE ROAD ROCKWALL, TX 75032

PROPERTY ID# = 32128

SITE ACREAGE = 0.93 ACRES/40,464 SF BUILDING AREA = 4,300 SF

IMPERVIOUS AREA = 26,949 SF PERVIOUS AREA = 9,215 SF

DISTURBED LAND = 0.93 ACRES/40,464 SF

EXISTING ZONING = C - COMMERCIAL

IH-30 OV - I-30 OVERLAY DISTRICT SOV - SCENIC OVERLAY DISTRICT

PROPOSED ZONING = C - COMMERCIAL

IH-30 OV - I-30 OVERLAY DISTRICT SOV - SCENIC OVERLAY DISTRICT

PROPOSED LAND USE = RESTAURANT 2,000 S.F. OR MORE WITH DRIVE-IN

### **PARKING CALCULATIONS**

RESTAURANT, ONE (1) SPACE FOR EACH 100 SQUARE FEET OR 1 FOR EACH 4 SEATS, WHICHEVER IS GREATER

CALCULATION:

BUILDING AREA: 4,300/100 = 43 SPACES

TOTAL SEATS: 115 SEATS/4 = 29 SPACES

PARKING REQUIRED: 29 SPACES

PARKING REQUIRED: 43 SPACES

PARKING PROVIDED: 47 SPACES (INCLUDES 2 ACCESSIBLE SPACES)

### DRIVE-THU STACKING REQUIREMENTS:

A MINIMUM OF SIX (6) SPACES SHALL BE PROVIDED FROM THE LOCATION OF THE ORDER WINDOW

INDEX

REVISIONS

1 2 3 4 5 6 7 8 9 C1.0 COVER SHEET - FINAL PLAT C2.0 SITE PLAN L1.0 LANDSCAPE PLAN C3.0 SPECIFICATION SHEET C4.0 DEMOLITION PLAN C5.0 DIMENSIONAL CONTROL PLAN C5.1 PAVING PLAN C6.0 GRADING PLAN C6.1A DRAINAGE AREA MAP (EXISTING) C6.1B DRAINAGE AREA MAP (PROPOSED) C6.2 STORM DRAINAGE PLAN C6.3 DETENTION CALCULATIONS C7.0 | EROSION CONTROL PLAN C7.1 EROSION CONTROL DETAILS C8.0 UTILITY PLAN C9.0 | DETAIL SHEET C9.1 DETAIL SHEET C9.2 DETAIL SHEET C9.3 WATER DETAIL SHEET C9.4 WATER DETAIL SHEET

### **AS-BUILT NOTES**

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

### SITE BENCHMARK INFORMATION

CITY BENCHMARK \* CITY OF ROCKWALL MONUMENT "RESET #1" A BRASS DISK NEAR SOUTH CURB SUMMER LEE DRIVE @ EAST END OF EAST DRIVEWAY RETURN FOR 1505 SUMMER LEE DRIVE APPROX. 104 EAST OF CENTERLINE INTERSECTION OF SUMMER LEE DRIVE & LAGO VISTA LANE. ELEV. = 567.70

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.

### UTILITY INFORMATION:

UTILITIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE SURVEYS, UTILITY COMPANY MAPS AND PHYSICAL PROPERTY INSPECTION. THE LOCATIONS AND FACILITIES SHALL BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES THAT HAVE NOT BEEN SHOWN ON THIS SURVEY. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION.

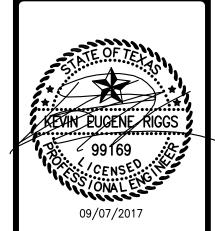


CALL 8-1-1 or 1-800-245-4545 (TEXAS ONE CALL) TO HAVE LOCATIONS MARKED IN THE FIELD FOR FRANCHISE UTILITY LOCATES ONLY (SUBSCRIBING UTILITIES REQUIRE 48 HOURS NOTICE PRIOR TO CONSTRUCTION).
FOR CITY OF ROCKWALL UTILITIES, LOCATES ARE TO BE SCHEDULED WITH THE CITY AT THE CITY OF ROCKWALL-SERVICE CENTER. A 48 HOUR NOTICE IS REQUIRED FOR ALL NON-EMERGENCY LOCATES. THE TELEPHONE NUMBER FOR THE SERVICE CENTER IS 1-972-771-7730.

"AS-BUILT DRAWINGS" 8/30/17 CITY CASE #SP2016-009

/30/2017 6 AS-BUILT DRAWINGS /12/2017 5 ELECTRIC COMMENTS /27/2016 4 TXDOT COMMENTS /26/2016 3 CITY COMMENTS /17/2016 2 CITY COMMENTS /102/2016 1 CITY COMMENTS DATE NO REVISION DESCRIPTION

SOUTH GEYER ROAD, SUITE 10C ST. LOUIS, MO 63127 (314) 984-2646 SPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAID SECTION 327, 411 REMO, PAR RESPONSIBILITY FOR ALL OTHER PICE SECTION OF OTHER POCCUMENTS OF INSTRINANCES.





Panera Café #1

2804 RIDGE ROAD
ROCKWALL, TX 7503
JRE

+ ST. |
401 Sulfe
Sulfe
St. Lo
314.6

NGINEERING / SURVEYING / PLANNING / LANDSCAPE

DESIGN/CALC BY
CAW

DRAWN BY
CAW

CHECKED BY
EWM

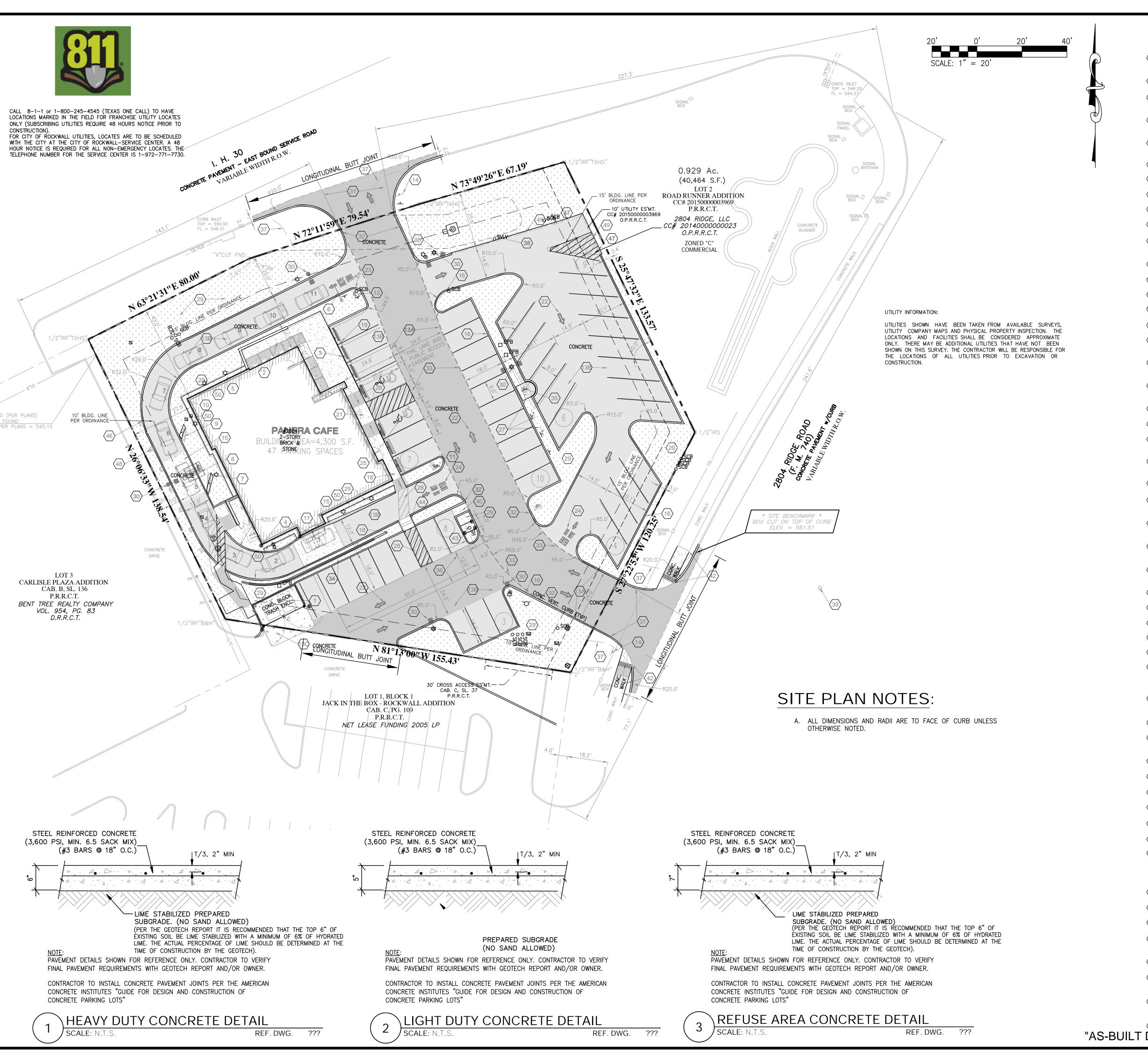
DRAWING SCALE
AS SHOWN

DATE

06/01/2016

Job Number
15-0157

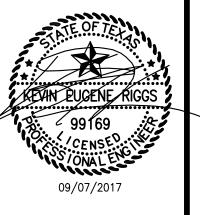
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## **KEYED NOTES:**

- (1) NEW TRASH ENCLOSURE. (PROVIDE DRAIN TO GREASE TRAP). REFER TO ARCHITECTURAL PLANS
- $\langle 2 \rangle$  NEW PATIO AREA. REFER TO ARCHITECTURAL PLANS.
- NEW 4" BOLLARD(S). REFER TO DETAIL ON SHEET C9.0. REFER TO ARCHITECTURAL PLANS FOR LOCATION AND QUANTITY.
- (4) NEW 6" BOLLARD(S). REFER TO DETAIL ON SHEET C9.0. REFER TO ARCHITECTURAL PLANS FOR LOCATION AND QUANTITY.
- 5 NEW PATIO HANDRAIL WITH INTEGRATED BOLLARDS. REFER TO ARCHITECTURAL PLANS.
- 6 NEW CLEARANCE BAR. REFER TO ARCHITECTURAL PLANS.
- 7 NEW MENU BOARD. REFER TO ARCHITECTURAL PLANS.
- (8) NEW MENU CANOPY. REFER TO ARCHITECTURAL PLANS.
- $\langle 9 \rangle$  NEW PREVIEW BOARD. REFER TO ARCHITECTURAL PLANS.
- $\langle 10 \rangle$  NEW BUILDING MOUNTED CAMERA. REFER TO ARCHITECTURAL PLANS.
- (11) NEW "DO NOT ENTER / THANK YOU" SIGN. REFER TO ARCHITECTURAL
- (12) NEW "DRIVE-THRU" SIGN. REFER TO ARCHITECTURAL PLANS.
- (3A) NEW HEAVY DUTY CONCRETE PAVEMENT. REFER TO C5.1 PAVING PLAN.
- (13B) NEW LIGHT DUTY CONCRETE PAVEMENT. REFER TO C5.1 PAVING PLAN.
- (30) NEW REFUSE AREA CONCRETE PAVEMENT. REFER TO C5.1 PAVING PLAN.
- $\langle 14 \rangle$  NEW "STOP" SIGN. REFER TO DETAIL ON SHEET C9.0.
- NEW CONCRETE PAD WITH SENSOR LOOP. REFER TO ARCHITECTURAL
- (16) NEW 6" VERTICAL CONCRETE CURB (STANDARD SECTION). REFER TO C5.1
- (17) NEW 6" VERTICAL CONCRETE CURB (WIDE SECTION). REFER TO C5.1
- $\langle 18 \rangle$  NEW TURNED DOWN CONCRETE WALK. REFER TO DETAIL ON SHEET C9.0.
- (19) NEW WHEEL STOPS (7 TOTAL). REFER TO DETAIL ON SHEET C9.0.
- (20) NEW FLARED ACCESSIBLE RAMP WITH TRUNCATED DOMES IN SIDEWALK. REFER TO DETAIL ON SHEET C9.0.
- (21) NEW PARALLEL ACCESSIBLE RAMP WITH TRUNCATED DOMES IN SIDEWALK. REFER TO DETAIL ON SHEET C9.0.
- (22) NEW TRAFFIC FLOW ARROW. REFER TO DETAIL ON SHEET C9.1.
- NEW "DRIVE-THRU" STRIPING AND TRAFFIC FLOW ARROW. REFER TO DETAIL ON SHEET C9.1.
- (24) NEW "DO NOT ENTER" STRIPING AND TRAFFIC FLOW ARROWS. REFER TO DETAIL ON SHEET C9.1.
- (25) NEW ACCESSIBLE PARKING PAINTED SYMBOL AND STRIPING (2 TOTAL). REFER TO DETAIL ON SHEET C9.1.
- (26) NEW ACCESSIBLE PARKING AND FINE SIGN(S) IN BOLLARD (2 TOTAL). REFER TO DETAIL ON SHEET C9.1.
- (27) NEW RAPID PICK UP SIGNS. REFER TO ARCHITECTURAL PLANS.
- (28) NEW PAINTED AISLE. REFER TO DETAIL ON SHEET C9.1.
- (29) NEW LANDSCAPE AREA. REFER TO LANDSCAPE PLANS.
- (30) NEW SITE LIGHTING. REFER TO ELECTRICAL PLANS.
- (31) NEW STANDARD DRIVE APPROACH PER TXDOT STANDARDS.
- NEW CURB TO BE PAINTED RED WITH CONTRASTING WHITE LETTERS READING "NO PARKING FIRE LANE" PER ROCKWALL FIRE PROTECTION
- (33) NEW RED PAINTED STRIPE WITH CONTRASTING WHITE LETTERS READING "NO PARKING FIRE LANE" PER ROCKWALL FIRE PROTECTION STANDARDS.
- (34) NEW SEGMENTAL RETAINING WALL. (DESIGNED BY OTHERS)
- (35) EXISTING PYLON SIGN TO REMAIN AND BE REFACED. REFER TO ARCHITECTURAL PLANS.
- (36) NEW 12'X65' LOADING AREA.
- (37) EXISTING DRIVEWAY EXTENTS (TO BE ALTERED).
- (38) NEW DRAINAGE/DETENTION EASEMENT.
- (39) EXISTING FIRE HYDRANT.
- 40 NEW 4' WIDE CONCRETE SWALE.
- (41) TAPER CURB. REFER TO DETAIL ON C5.1 PAVING PLAN.
- (42) NEW CONCRETE WALK AND TYPE 10 RAMP PER TXDOT STANDARDS. TRUNCATED DOME PLATES TO BE COLONIAL OR BRICK RED IN COLOR. REFER TO DETAIL SHEET C9.2. NEW WALK TO MATCH EXISTING IN LOCATION AND ELEVATION.
- (43) NEW 4'X4'X4" CONCRETE PAD FOR REMOTE FDC.
- (44) NEW CONCRETE STEPS. 2- 8" TREADS/6" RISERS.
- 45 NEW CONCRETE PAD FOR ELECTRIC TRANSFORMER.
- NEW FLOW OPENING IN CURB (TYPICAL OF 7). REFER TO DETAIL ON
- SHEET C-9.1.
- 47 NEW EDGE OF CONCRETE PAVEMENT (NO CURB).
- $\langle 48 \rangle$  NEW 2' LONG X 2' WIDE X 12" THICK ROCK BLANKET (TXDOT COMMON RIPRAP) OVER FILTER FABRIC (TYPE 1).
- (49) NEW 1' WIDE X 12" THICK ROCK BLANKET (TXDOT COMMON RIPRAP)
- OVER FILTER FABRIC (TYPE 1).

(50) NEW 2' WIDE CONCRETE MOW STRIP. REFER TO DETAIL ON SHEET C-9.0. CITY CASE #SP2016-009 "AS-BUILT DRAWINGS" 8/30/17





CAW RAWN BY CAW CHECKED BY EWM RAWING SCALE AS SHOWN 06/01/2016

> Job Number 15-0157

### GENERAL NOTES

- 1. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS, THE PLANS INCLUDING ALL NOTES, THE CITY SPECIFICATIONS, AND ANY OTHER APPLICABLE STANDARDS OR SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
- 2. CONTRACTOR SHALL HAVE IN HIS POSSESSION, PRIOR TO CONSTRUCTION, ALL NECESSARY PERMITS, LICENSES, ETC. CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS ON—SITE AT ALL TIMES. INSPECTION OF IMPROVEMENTS DOES NOT RELIEVE THE SUBDIVIDER, OR HIS CONTRACTOR, FROM ENSURING THAT THE IMPROVEMENTS ARE CONSTRUCTED IN ACCORDANCE WITH THE ACCEPTED PLANS AND SPECIFICATIONS.
- 3. ALL PUBLIC UTILITY CONSTRUCTION SHALL CONFORM TO CITY SPECIFICATIONS, STANDARDS, AND DETAILS UNLESS OTHERWISE NOTED.
- 4. IN THE EVENT PUBLIC CONSTRUCTION ITEM IS NOT COVERED BY CITY CRITERIA, THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) 3RD EDITION STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SHALL APPLY WITH CONCURRING NOTIFICATION TO THE CITY ENGINEER AND PROJECT ENGINEER.
- 5. CONSTRUCTION INSPECTION WILL BE PERFORMED BY REPRESENTATIVES OF THE OWNER, ENGINEER, CITY, GEOTECHNICAL ENGINEER, AND REVIEWING AUTHORITIES AND AGENCIES. UNRESTRICTED ACCESS SHALL BE PROVIDED TO THEM AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND SCHEDULING REQUIRED INSPECTIONS.
- 6. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS ONTO DEVELOPED OR UNDEVELOPED AREAS WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
- 7. IT WILL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LINE LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY DAMAGES CAUSED TO THEIR FACILITIES.
- 8. TRENCH SAFETY DESIGN WILL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. CONTRACTOR SHALL SUBMIT A TRENCH SAFETY DESIGN APPROVED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER TO THE CITY ENGINEERING DEPARTMENT FOR REVIEW PRIOR TO THE START OF ANY UTILITY CONSTRUCTION.
- 9. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AN PROPERTY, THAT THIS REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTION FROM LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER.
- 10. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION. COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN, TEXAS.
- 11. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., THAT ARE DAMAGED OR UNDERCUT BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE OWNER OR ENGINEER AND APPROVED BY THE RESPECTIVE AUTHORITY AT THE CONTRACTOR'S EXPENSE.
- 12. CONTRACTOR SHALL MATCH EXISTING PAVEMENT, CURBS, AND GUTTER IN GRADE, TYPE AND ALIGNMENT.
- 13. WHERE CONSTRUCTION IS IN THE PROXIMITY OF AN EXISTING UTILITY, THE CONTRACTOR WILL TAKE PRECAUTIONS TO PROTECT AND/OR SUPPORT THE UTILITY AND ANY DAMAGE THAT MIGHT OCCUR SHALL BE REPORTED IMMEDIATELY. IF AT ANY TIME DURING THE CONSTRUCTION OPERATION A NEW SEWER LINE HAS LESS THAN 3.5 FEET OF COVER, IT SHALL BE ENCASED OR SADDLED WITH CONCRETE.
- 14. ALL EXISTING UTILITIES WILL NEED TO BE ADJUSTED TO PROPOSED GRADE.
- 15. FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISH GRADE PRIOR TO FINAL ASPHALT COURSE.
- 16. THE CONTRACTOR SHALL FURNISH ALL ASSISTANCE REQUIRED OF HIM BY THE INSPECTOR IN OBTAINING SAMPLES AT THE EXPENSE OF THE CONTRACTOR.
- 17. IF IN THE OPINION OF THE OWNER, BASED ON TESTING SERVICE REPORTS AND INSPECTION, MATERIALS OR COMPACTION ARE BELOW THE SPECIFIED REQUIREMENTS THE CONTRACTOR SHALL PROVIDE ADDITIONAL SERVICES AND TESTING TO OBTAIN THE SPECIFIED PARAMETERS AT NO ADDITIONAL EXPENSE.
- 18. BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND GENERALLY LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO ASSUME AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES. DURING THE PROGRESS OF WORK, THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC.
- 19. THE CONTRACTOR SHALL PROTECT EXISTING GRASS, LANDSCAPING AND TREES NOT IN DIRECT CONFLICT WITH THE PROPOSED IMPROVEMENTS DURING CONSTRUCTION. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDED REVEGETATION OF ALL DAMAGED GRASSED AREAS EQUAL TO OR EXCEEDING THE TYPE OF VEGETATION PRESENT BEFORE CONSTRUCTION UNLESS OTHERWISE REQUESTED BY THE PROPERTY OWNER.
- 20. CONTRACTOR SHALL MAINTAIN AN AS-BUILT SET OF PLANS WITH MARKUPS DEPICTING FIELD ADJUSTMENTS OR CONSTRUCTION ALTERATIONS. AS-BUILT PLANS SHALL BE PROVIDED TO ENGINEER FOR REVIEW IN PREPARATION OF RECORD DRAWINGS TO BE PROVIDED TO THE CITY FOR FINAL ACCEPTANCE.

### UTILITY NOTES

- 1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING FLOWLINES OF ALL UTILITIES AND COORDINATE ALL UTILITIES WITH MEP DRAWINGS. REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER IMMEDIATELY.
- 2. THE CONTRACTOR SHALL COORDINATE WATER METER INSTALLATIONS WITH UTILITY COMPANIES AND PAY ALL COSTS ASSOCIATED WITH THE SAME.
- 3. THE TOP ELEVATION OF PROPOSED MANHOLES, CLEANOUTS AND JUNCTION BOXES SHALL MATCH THE FINISHED GRADE ELEVATIONS ON PAVEMENT AND SHALL EXTEND 6" ABOVE GRADE ON NON-PAVEMENT. THE CONTRACTOR SHALL EXTEND ALL EXISTING UTILITY MANHOLES, BOXES, COVERS, ETC. TO PROPOSED FINISHED GRADE PRIOR TO FINAL PAVING OPERATIONS, UNLESS APPROVED OTHERWISE.
- 4. THRUST BLOCKING SHALL BE USED AT ALL WATER LINE TEES, BENDS, DEAD ENDS, ETC., IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.
- 5. UNLESS OTHERWISE DIRECTED BY THE CITY OR ENGINEER, DEPTH OF COVER FOR ALL WATER AND WASTEWATER LINES SHALL BE 42" MINIMUM.
- 6. THE CONTRACTOR SHALL OBTAIN A BULK WATER PERMIT OR PURCHASE AND INSTALL A WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
- 7. ALL WATER METERS AND DETECTOR CHECKS TO BE INSTALLED BY THE CITY AT THE DEVELOPER'S EXPENSE. CONTRACTOR SHALL COORDINATE WITH THE CITY.

### SANITARY SEWER NOTES

- 1. ALL GRAVITY SANITARY SEWER SHALL BE PVC ASTM D3034, SDR35, GREEN IN COLOR, AND SHALL BE PLACED ON MINIMUM CLASS "B" EMBEDMENT PER CITY SPECIFICATIONS. GREEN TRACER TAPE SHALL BE INSTALLED IN THE BACK FILL MATERIAL TWO-FOOT (2') ABOVE PIPE AND TWO-FOOT BELOW FINISHED GRADE (2 LINES).
- 2. IF SANITARY SEWER DEPTH EXCEEDS 10 FEET, SANITARY SEWER SHALL BE PVC (ASTM D2239, ASTM 2737, ASTM 3035, F714) SDR26.
- 3. THE TOP ELEVATION OF PROPOSED MANHOLES, CLEANOUTS AND JUNCTION BOXES SHALL MATCH THE FINISHED GRADE ELEVATIONS ON PAVEMENT AND SHALL EXTEND 6" ABOVE GRADE ON NON-PAVEMENT. THE CONTRACTOR SHALL EXTEND ALL EXISTING UTILITY MANHOLES, BOXES, COVERS, ETC. TO PROPOSED FINISHED GRADE PRIOR TO FINAL PAVING OPERATIONS, UNLESS APPROVED OTHERWISE.
- 4. SANITARY SEWERS SHALL BE TESTED IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS.
- 5. ALL SANITARY SEWER MANHOLES SHALL BE PRE—CAST OR CAST—IN—PLACE CONCRETE MANHOLES CONSTRUCTED IN ACCORDANCE WITH CITY'S DESIGN STANDARDS. ALL MANHOLES TO BE RAVEN LINED OR APPROVED EQUAL.
- 6. ALL 6" SANITARY SEWER LATERALS SHALL GO INTO SANITARY SEWER MANHOLES WHERE THEY CONNECT TO CITY SANITARY SEWER MAINS. ONCE SANITARY SEWER LATERAL LEAVES THE CITY EASEMENT IT SHALL BE GOVERNED BY ALL RULES AND REGULATIONS OF THE CITY'S BUILDING INSPECTION DEPARTMENT.
- 7. ALL 6-INCH SEWER LEADS TO BUILDINGS SHALL BE PER TCEQ MINIMUM SLOPE.
- 8. WATER/SANITARY MANHOLE AND SANITARY SEWER SEPARATION: ALL SANITARY SEWER FACILITIES AND POTABLE WATER LINES MUST BE INSTALLED AT A MINIMUM HORIZONTAL & VERTICAL SEPARATION OF NINE (9) FEET. WHERE THE NINE (9) FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING TABLES SHALL BE UTILIZED TO DETERMINE CONSTRUCTION REQUIREMENTS:

# PROTECTION REQUIREMENTS AT WATERLINE — SANITARY SEWER CROSSINGS (UNLESS VARIANCE IS GRANTED BY TCEQ) (ALL CLEARANCES SHALL BE MEASURED FROM OUTSIDE WALL TO OUTSIDE WALL)

PRIMARY CONDITION	PROPOS	SED WATER —	EXISTING S	ANITARY		0	PROPOSED S R PROPOSED :	
SECONDARY CONDITION	WATER OVE	R SANITARY	WATER UNDI	ER SANITARY	WATER OVE	R SANITARY	WATER UND	ER SANITARY
IF THE CLEARANCE IS	LESS THAN 2 FT.	GREATER THAN 2 FT. BUT LESS THAN 9 FT.	LESS THAN 2 FT.	GREATER THAN 2 FT. BUT LESS THAN 9 FT.	LESS THAN 2 FT.	GREATER THAN 2 FT. BUT LESS THAN 9 FT.	LESS THAN 2 FT.	GREATER THAN 2 FT. BUT LESS THAN 9 FT.
* PROTECTION REQUIREMENT	А.	В.	C.	D.	E.	F.	C.	F. OR G.

- A. ONE, 20-FOOT JOINT, C900 PVC, 150 PSI CENTERED OVER SANITARY SEWER; 6" ABSOLUTE MINIMUM CLEARANCE ONLY FOR EXISTING PRESSURE-RATED SANITARY.
- B. ONE, 20-FOOT JOINT, C900 PVC, 150 PSI CENTERED OVER SANITARY SEWER. IF NO EVIDENCE OF SANITARY SEWER LEAKAGE CENTER ONE JOINT OF WATERLINE OVER SANITARY SEWER; 2' ABSOLUTE MINIMUM CLEARANCE. IF THE SEWER LINE IS LEAKING, THE SEWER LINE SHALL BE REPLACED WITH 150 PSI LINED DUCTILE IRON PIPE OR PVC PIPE WITH THE APPROPRIATE ADAPTER ON ALL PORTIONS OF THE SANITARY SEWER WITHIN 9' OF WATERLINE.
- C. NOT ALLOWED.
- D. ENCASE SANITARY SEWER WITH STEEL ENCASEMENT SEALED AT BOTH ENDS WITH CEMENT GROUT OR MANUFACTURES SEAL. CENTER A MINIMUM 18-FOOT JOINT OF PRESSURE RATED (150 PSI) STEEL ENCASEMENT ON WATERLINE. MUST AT LEAST 2 NOMINAL SIZES LARGER THAN SANITARY. WATER AND SANITARY LINES MUST BE SUPPORTED BY SPACERS AS MAX 5-FOOT INTERVALS.
- E. CENTER A MINIMUM 18' JOINT OF SANITARY SEWER, PRESSURE RATED (150 PSI), LINED DUCTILE IRON PIPE OR PVC CENTERED ON WATERLINE; 6" ABSOLUTE MINIMUM CLEARANCE.
- F. CENTER A MINIMUM 18' JOINT OF SANITARY SEWER, PRESSURE RATED (150 PSI) LINED DUCTILE IRON PIPE OR PVC CENTERED ON THE WATERLINE.
- G. ENCASE SANITARY SEWER WITH STEEL ENCASEMENT SEALED AT BOTH ENDS WITH CEMENT GROUT OR MANUFACTURES SEAL. CENTER A MINIMUM 18-FOOT JOINT OF PRESSURE RATED (150 PSI) STEEL ENCASEMENT ON WATERLINE. MUST AT LEAST 2 NOMINAL SIZES LARGER THAN SANITARY. WATER AND SANITARY LINES MUST BE SUPPORTED BY SPACERS AS MAX 5-FOOT INTERVALS.

# PROTECTION REQUIREMENTS AT WATERLINE — SANITARY SEWER PARALLEL (UNLESS VARIANCE IS GRANTED BY TCEQ) (ALL CLEARANCES SHALL BE MEASURED FROM OUTSIDE WALL TO OUTSIDE WALL)

PRIMARY CONDITION	PROPOS	SED WATER —	EXISTING S	ANITARY		0	PROPOSED S R PROPOSED :	
SECONDARY CONDITION	WATER OVE	R SANITARY	WATER UNDI	ER SANITARY	WATER OVE	R SANITARY	WATER UND	ER SANITARY
IF THE CLEARANCE IS	LESS THAN 2 FT.	GREATER THAN 2 FT. BUT LESS THAN 9 FT.	LESS THAN 2 FT.	GREATER THAN 2 FT. BUT LESS THAN 9 FT.	LESS THAN 2 FT.	GREATER THAN 2 FT. BUT LESS THAN 9 FT.	LESS THAN 2 FT.	GREATER THAN 2 FT. BUT LESS THAN 9 FT.
* PROTECTION REQUIREMENT	A.	В.	A.	Α.	A.	C.	A.	A.

- A. NOT ALLOWED.
- B. ENGINEER MUST DETERMINE THAT EXISTING SANITARY MAIN OR LATERAL IS NOT LEAKING. HORIZONTAL SEPARATION SHALL BE NO LESS THAN 4 FEET (OUTSIDE WALL TO OUTSIDE WALL).
- C. ENTIRE SANITARY LINE BETWEEN MANHOLES MUST BE PRESSURE RATED (150 PSI), LINED DUCTILE IRON PIPE OR PVC. HORIZONTAL SEPARATION SHALL NOT BE LESS THAN 4 FEET (OUTSIDE WALL TO OUTSIDE WALL).
- D. CONTRACTOR TO INSTALL GREEN EMS PAD AT EVERY CHANGE IN DIRECTION, MANHOLE, CONNECTION AND CLEANOUT.

### CLEARING, GRUBBING & GRADING NOTES

- 1. TREES AND OTHER VEGETATION DESIGNATED TO REMAIN UNDISTURBED SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD. ANY DAMAGES RESULTING FROM THE CONTRACTOR'S OPERATIONS OR NEGLECT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
- 2. THE LIMITS OF THE AREA(S) TO BE CLEARED AND GRUBBED WILL BE MARKED BY STAKES, FLAGS, TREE MARKINGS, OR OTHER SUITABLE METHODS. TREES TO BE LEFT STANDING AND UNINJURED WILL BE DESIGNATED BY MARKINGS AND/OR FENCING THAT IS CONDUCIVE TO PREVENTING INJURY TO THE TREE AND SHALL BE PLACED ON THE TRUNK ±5 FEET ABOVE GROUND.
- 3. TRIMMING OF TREES AND SHRUBS DESIGNATED TO REMAIN SHALL BE CONDUCTED AS NECESSARY IN ACCORDANCE WITH PROPER TREE SURGERY TECHNIQUES TO ENSURE THE CONTINUED HEALTH OF THE TREE OR SHRUB.
- 4. ALL TREES NOT MARKED FOR PRESERVATION AND ALL SNAGS, LOGS, BRUSH, STUMPS, SHRUBS, RUBBISH, AND SIMILAR MATERIALS SHALL BE CLEARED FROM WITHIN THE LIMITS OF THE DESIGNATED AREAS. UNLESS OTHERWISE SPECIFIED, ALL STUMPS, ROOTS, AND ROOT CLUSTERS THAT HAVE A DIAMETER OF ONE INCH OR LARGER SHALL BE GRUBBED OUT TO A DEPTH OF AT LEAST TWO FEET BELOW SUBGRADE FOR CONCRETE STRUCTURES, INCLUDING FOUNDATIONS AND PAVEMENT, AND ONE FOOT BELOW THE GROUND SURFACE AT EMBANKMENT SITES AND ALL OTHER AREAS.
- 5. ALL MATERIALS CLEARED AND GRUBBED FROM THE DESIGNATED AREAS SHALL BE DISPOSED OF OFF-SITE. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL RULES AND REGULATIONS AND THE PAYMENT OF ANY AND ALL FEES THAT MAY RESULT FROM DISPOSAL AT LOCATIONS AWAY FROM THE PROJECT SITE.
- 6. EXCEPT IN AREAS TO BE EXCAVATED, STUMP HOLES AND OTHER HOLES FROM WHICH OBSTRUCTIONS ARE REMOVED SHALL BE BACKFILLED WITH SUITABLE MATERIALS AND COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 7. ALL CLEARING AND GRUBBING OPERATIONS SHALL BE COMPLETE AND DISPOSAL MATERIAL REMOVED FROM SITE PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
- 8. ORGANIC TOPSOIL VOID OF DEBRIS OR MATERIAL NOT SUITABLE FOR RE-SPREADING MAY BE STRIPPED AND STOCKPILED WITH APPROPRIATE SILT FENCING TO PREVENT SOIL LOSS.
- 9. MAXIMUM SLOPE OF FINISHED GRADES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL.
- 10. FINAL DESIGN GRADES SHALL BE ESTABLISHED PRIOR TO SPREADING OF TOPSOIL, EXCEPT AT BACK OF CURB. FINAL GRADES SHALL NOT BE ESTABLISHED USING EXCESSIVE AMOUNTS OF TOPSOIL FOR FILL.
- 11. CURBS SHALL BE BACKFILLED AND MECHANICALLY COMPACTED TO WITHIN 4 INCHES OF THE TOP OF CURB WITH NON-ORGANIC MATERIAL. REMAINDER OF FILL SHALL BE TOPSOIL PLACED TO WITHIN 0.5 INCHES OF TOP OF CURB.
- 12. TOP SOIL SHALL BE COMPACTED SUFFICIENTLY WITH A LIGHT ROLLER TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL. AVOID EXCESSIVE COMPACTION THAT MAY INHIBIT SEED GERMINATION.
- 13. ANY OFF-SITE PROPERTY (I.E. TREES, BUSHED, FENCES, MAILBOXES, ETC) DISTURBED DURING CLEARING, GRUBBING, OR GRADING OPERATIONS, OR DURING THE COURSE OF ANY CONSTRUCTION ACTIVITIES, SHALL BE REPLACED BY THE CONTRACTOR.
- 14. ELEVATIONS SHOWN ON GRADING PLAN ARE TO FINISH GRADE OR FINISH PAVEMENT. THE CONTRACTOR SHALL DEDUCT CONCRETE AND STABILIZATION MATERIAL THICKNESS TO OBTAIN SUBGRADE ELEVATIONS.
- 15. IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF A PERMANENT GROUND COVER, TURF STABILIZATION AND REINFORCEMENT MATS SHALL BE INSTALLED.
- 16. ALL FILL TO BE COMPACTED TO A MINIMUM OF 95% USING A SHEEP'S FOOT ROLLER.

### WATER NOTES

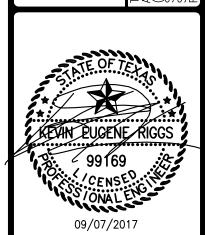
1. ALL PUBLIC UTILITIES CONFORMANCE WITH CITY DETAILS AND SPECIFICATIONS.

FINISHED GROUND OR PAVING GRADE.

- 2. ALL 6-INCH, 8-INCH, AND 12-INCH WATER MAINS TO BE AWWA C900 PVC PIPE SDR 14 OR DUCTILE IRON, AWWA C150 OR C153, AND BLUE IN COLOR. ALL VALVES SHALL BE DUCTILE AWWA C509, APPROVED DOUBLE RESILIENT SEAT VALVES WITH O-RING SEALS. WATER MAINS SHALL BE PLACED ON MINIMUM CLASS "B" EMBEDMENT PER CITY SPECIFICATIONS. BLUE TRACER TAPE SHALL BE INSTALLED IN THE BACK FILL MATERIAL ONE-FOOT (1') OVER THE TOP OF PIPE.
- 3. FIRE HYDRANTS SHALL BE THREE WAY BREAKAWAY TYPE NO LESS THAN 5-1/4 INCHES IN SIZE AND MUST CONFORM TO AWWA SPECIFICATIONS C502.
- 4. HYDRANTS SHALL HAVE 1-1/4" OPERATING HEX-NUTS, ONE 4-1/2" NOZZLE PUMPER AND TWO 2-1/2" HOSE NOZZLE. ALL THREADS TO BE NATIONAL STANDARD THREADS (NST). ALL JOINTS SHALL BE RESTRAINED, MEGA-LUG OR APPROVED EQUAL.
- 5. A BLUE STEMSONITE, FIRE-LITE REFLECTOR (OR APPROVED EQUAL) SHALL BE PLACED IN THE CENTER OF THE STREET OR DRIVE OPPOSITE EACH FIRE HYDRANT.
- 6. INSTALL 2'X2'X6" THICK, CONCRETE SLAB AROUND ALL WATER VALVES OUTSIDE OF CONCRETE PAVEMENT.
  VALVE EXTENSIONS SHALL BE PROVIDED ON ALL VALVES WITH OPERATING NUTS GREATER THAN 5' BELOW
- 7. BOLTS AND NUTS FOR MECHANICAL JOINTS WILL BE OF HIGH-STRENGTH LOW-ALLOY CORROSION RESISTANT STEEL CONFORMING TO A.I.S.M. A325 (TYPE 3).
- 8. ALL POLY SDR-9 WATER SERVICE LINES SHALL BE EMBEDDED WITH 3/8" ROCK BELOW AND AROUND THE PIPE AND 1' OF GRAVEL OVER THE TOP OF THE PIPE; FROM THE WATER MAIN TO THE METER. COPPER AND SAND EMBEDMENT WILL NOT BE ALLOWED.
- 9. ALL HORIZONTAL AND VERTICAL BENDS SHALL HAVE CONCRETE THRUST BLOCKING PER CITY STANDARDS.
- ALL TEES, BENDS, AND CASINGS WITHIN 25' OF EACH OTHER SHALL BE ALL THREADED TOGETHER WITH CONCRETE THRUST BLOCKING WHERE NEEDED.
- 11. ALL METER BANKS WILL BE MADE UP OF SINGLE METER AND SEPARATE METER BOXES. CONTRACTOR TO CREATE MANIFOLDS SO THAT EACH METER IS SPACED APART FROM EACH OTHER.
- 12. CONTRACTOR TO INSTALL BLUE EMS PAD AT EVERY CHANGE IN DIRECTION, CONNECTION, VALVE AND EVERY 400-FEET.

2017 6 AS—BUILT DRAWINGS
2017 5 ELECTRIC COMMENTS
2016 4 TXDOT COMMENTS
2016 3 CITY COMMENTS
2016 2 CITY COMMENTS
2016 1 CITY COMMENTS
2016 1 CITY COMMENTS
2017 COMMENTS
2018 1 CITY COMMENTS
2019 2 CITY COMMENTS
2019 2

SOUTH GEYER ROAD, SUITE 1
ST. LOUIS, NO 63127
(314) 984-2646
WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON IBILITY ONLY FOR WHAT APPEARS ON THIS PACE, AND DISTION 327, 411 RSMO) ANY RESPONSIBILITY FOR ALL OTHER TIMMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENT





Panera Cate #1982

2804 RIDGE ROAD
ROCKWALL, TX 75032

+ ST. LOUIS
401 S. 18th Sti
Suite 200
St. Louis, MO 6
St. Louis, MO 6
314.984.9887

CIVIL ENGINEERING / SURVEYING / PLANNING / LANDSCAPE ARCHITE
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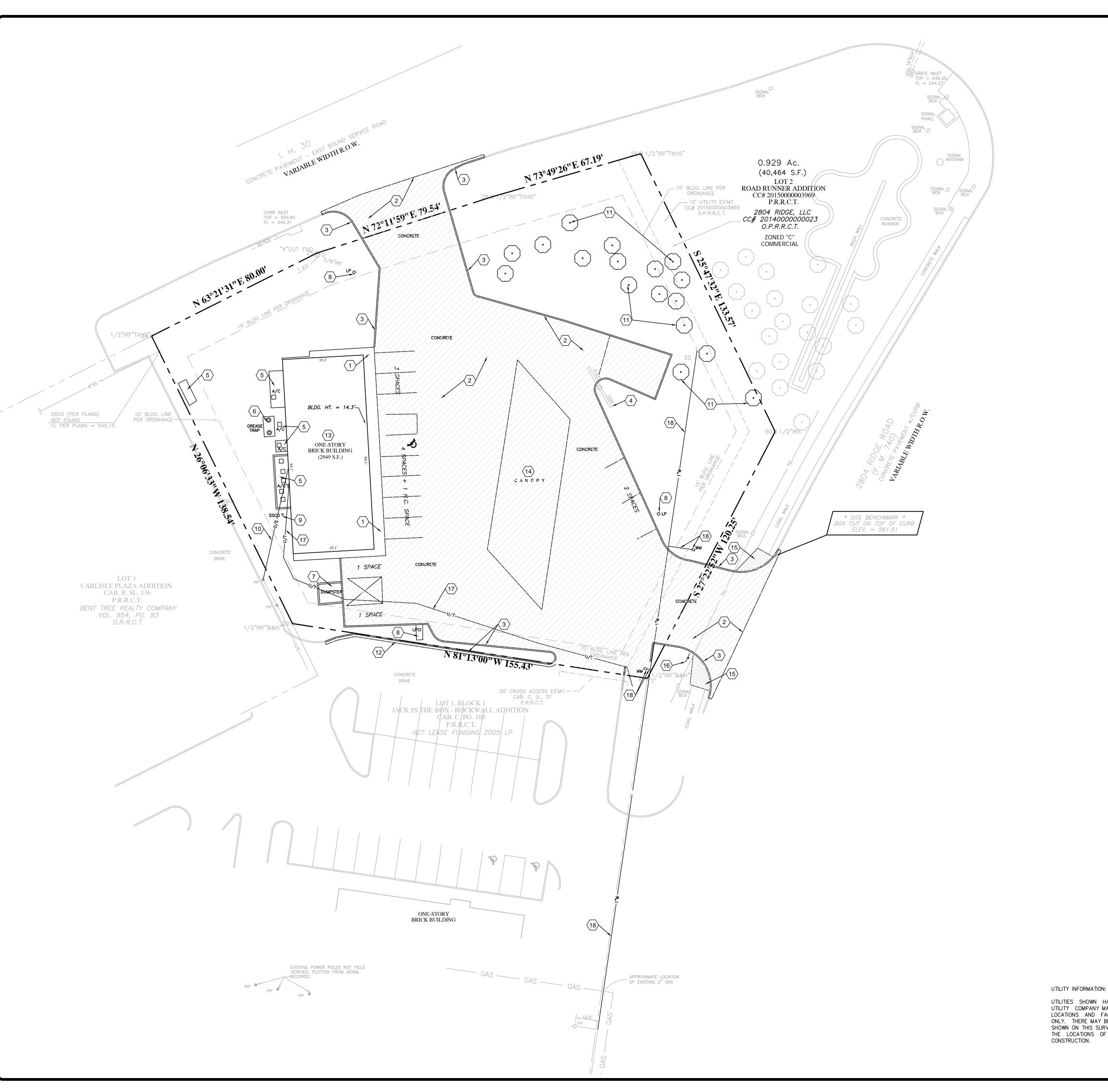
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DRAWING SCALE

AS SHOWN

Job Number 15-0157

06/01/2016





- (1) EXISTING CONCRETE WALK TO BE REMOVED.
- 2 EXISTING PAVEMENT TO BE REMOVED.
- (3) EXISTING CURB TO BE REMOVED.
- 4 EXISTING POLE SIGN TO REMAIN AND BE RE-FACED.
- 5 EXISTING CONCRETE PADS AND MECHANICAL EQUIPMENT TO BE REMOVED.
- 6 EXISTING GREASE TRAP TO BE REMOVED.
- 7 EXISTING REFUSE ENCLOSURE TO BE REMOVED.
- 8 EXISTING SIGHT LIGHTING TO BE REMOVED.
- 9 EXISTING SANITARY SEWER CLEANOUT TO BE REMOVED.
- (10) EXISTING OVERHEAD ELECTRIC TO BE REMOVED.
- EXISTING TREES TO BE REMOVED.
- (12) EXISTING PAVEMENT TO BE REMOVED AND REPLACED IN KIND.
- (13) EXISTING BUILDING TO BE REMOVED.
- (14) EXISTING CANOPY TO BE REMOVED.
- (15) EXISTING WALK AND RAMP TO BE REMOVED AND REPLACED.
- EXISTING STOP SIGN TO BE REMOVED AND RELOCATED.
- EXISTING UNDERGROUND TELEPHONE TO BE REMOVED.
- REMOVE EXISTING 1" WATER LINE AND ASSOCIATED METERS.

# **DEMOLITION NOTES:**

- A. REFER TO SHEET C3.0 FOR SITE PLAN.
- B. REFER TO SHEET C4.0 FOR GRADING PLAN.
- C. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS AND DIMENSIONS OF SIDEWALKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.



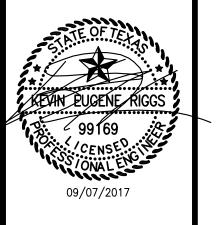
UTILITIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE SURVEYS, UTILITY COMPANY MAPS AND PHYSICAL PROPERTY INSPECTION. THE LOCATIONS AND FACILITIES SHALL BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES THAT HAVE NOT BEEN SHOWN ON THIS SURVEY. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR

"AS-BUILT DRAWINGS" 8/30/17

CALL 8-1-1 or 1-800-245-4545 (TEXAS ONE CALL) TO HAVE LOCATIONS MARKED IN THE FIELD FOR FRANCHISE UTILITY LOCATES ONLY (SUBSCRIBING UTILITIES REQUIRE 48 HOURS NOTICE PRIOR TO CONSTRUCTION). FOR CITY OF ROCKWALL UTILITIES, LOCATES ARE TO BE SCHEDULED WITH THE CITY AT THE CITY OF ROCKWALL-SERVICE CENTER. A 48

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CITY CASE #SP2016-009



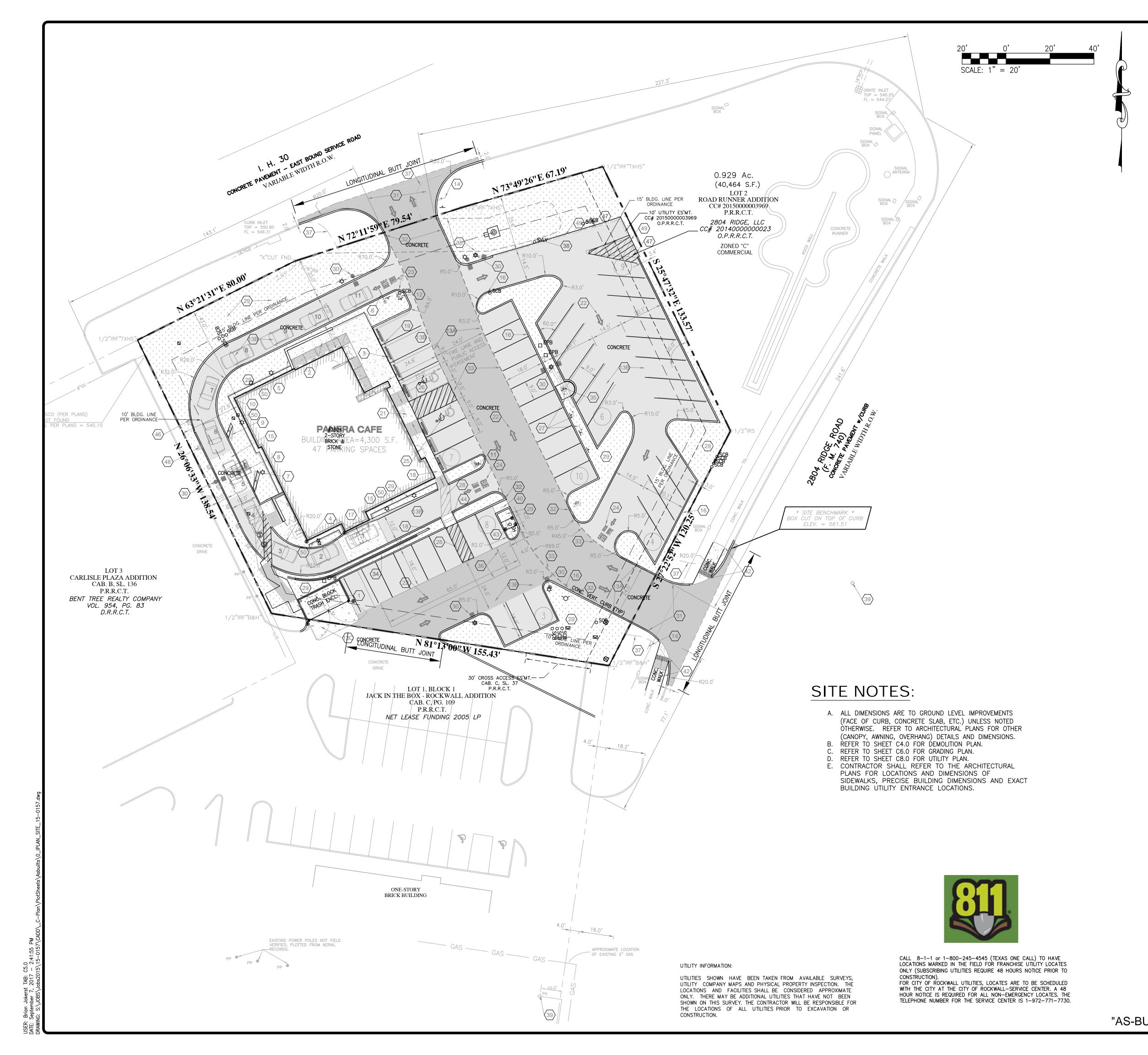


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AS SHOWN 06/01/2016 Job Number

15-0157 Sheet Number



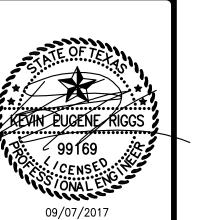
### KEYED NOTES:

- (1) NEW TRASH ENCLOSURE. (PROVIDE DRAIN TO GREASE TRAP). REFER TO ARCHITECTURAL PLANS
- $\langle 2 \rangle$  NEW PATIO AREA. REFER TO ARCHITECTURAL PLANS.
- NEW 4" BOLLARD(S). REFER TO DETAIL ON SHEET C9.0. REFER TO ARCHITECTURAL PLANS FOR LOCATION AND QUANTITY.
- 4 NEW 6" BOLLARD(S). REFER TO DETAIL ON SHEET C9.0. REFER TO
- ARCHITECTURAL PLANS FOR LOCATION AND QUANTITY. 5 NEW PATIO HANDRAIL WITH INTEGRATED BOLLARDS. REFER TO ARCHITECTURAL PLANS.
- $\langle 6 \rangle$  NEW CLEARANCE BAR. REFER TO ARCHITECTURAL PLANS.
- $\langle 7 \rangle$  NEW MENU BOARD. REFER TO ARCHITECTURAL PLANS.
- $\langle 8 \rangle$  NEW MENU CANOPY. REFER TO ARCHITECTURAL PLANS.
- (9) NEW PREVIEW BOARD. REFER TO ARCHITECTURAL PLANS.
- (10) NEW BUILDING MOUNTED CAMERA. REFER TO ARCHITECTURAL PLANS.
- 11) NEW "DO NOT ENTER / THANK YOU" SIGN. REFER TO ARCHITECTURAL
- (12) NEW "DRIVE-THRU" SIGN. REFER TO ARCHITECTURAL PLANS.
- (3A) NEW HEAVY DUTY CONCRETE PAVEMENT. REFER TO C5.1 PAVING PLAN.
- (3B) NEW LIGHT DUTY CONCRETE PAVEMENT. REFER TO C5.1 PAVING PLAN.
- (3¢) NEW REFUSE AREA CONCRETE PAVEMENT. REFER TO C5.1 PAVING PLAN.
- (14) NEW "STOP" SIGN. REFER TO DETAIL ON SHEET C9.0.
- NEW CONCRETE PAD WITH SENSOR LOOP. REFER TO ARCHITECTURAL
- (16) NEW 6" VERTICAL CONCRETE CURB (STANDARD SECTION). REFER TO C5.1
- NEW 6" VERTICAL CONCRETE CURB (WIDE SECTION). REFER TO C5.1
- $\langle 18 \rangle$  NEW TURNED DOWN CONCRETE WALK. REFER TO DETAIL ON SHEET C9.0.
- (19) NEW WHEEL STOPS (7 TOTAL). REFER TO DETAIL ON SHEET C9.0.
- NEW FLARED ACCESSIBLE RAMP WITH TRUNCATED DOMES IN SIDEWALK. REFER TO DETAIL ON SHEET C9.0.
- (21) NEW PARALLEL ACCESSIBLE RAMP WITH TRUNCATED DOMES IN SIDEWALK. REFER TO DETAIL ON SHEET C9.0.
- $\langle 22 \rangle$  NEW TRAFFIC FLOW ARROW. REFER TO DETAIL ON SHEET C9.1.
- NEW "DRIVE-THRU" STRIPING AND TRAFFIC FLOW ARROW. REFER TO DETAIL ON SHEET C9.1.
- (24) NEW "DO NOT ENTER" STRIPING AND TRAFFIC FLOW ARROWS. REFER TO DETAIL ON SHEET C9.1.
- 25) NEW ACCESSIBLE PARKING PAINTED SYMBOL AND STRIPING (2 TOTAL). REFER TO DETAIL ON SHEET C9.1.
- $\langle 26 \rangle$  NEW ACCESSIBLE PARKING AND FINE SIGN(S) IN BOLLARD (2 TOTAL). REFER TO DETAIL ON SHEET C9.1.
- (27) NEW RAPID PICK UP SIGNS. REFER TO ARCHITECTURAL PLANS.
- (28) NEW PAINTED AISLE. REFER TO DETAIL ON SHEET C9.1.
- $\langle 29 \rangle$  NEW LANDSCAPE AREA. REFER TO LANDSCAPE PLANS.
- (30) NEW SITE LIGHTING. REFER TO ELECTRICAL PLANS.
- (31) NEW STANDARD DRIVE APPROACH PER TXDOT STANDARDS.
- (32) NEW CURB TO BE PAINTED RED WITH CONTRASTING WHITE LETTERS READING "NO PARKING FIRE LANE" PER ROCKWALL FIRE PROTECTION
- 33 NEW RED PAINTED STRIPE WITH CONTRASTING WHITE LETTERS READING "NO PARKING FIRE LANE" PER ROCKWALL FIRE PROTECTION STANDARDS.
- (34) NEW SEGMENTAL RETAINING WALL. (DESIGNED BY OTHERS)
- (35) EXISTING PYLON SIGN TO REMAIN AND BE REFACED. REFER TO ARCHITECTURAL PLANS.
- (36) NEW 12'X65' LOADING AREA.
- $\langle \overline{37} \rangle$  EXISTING DRIVEWAY EXTENTS (TO BE ALTERED).
- (38) NEW DRAINAGE/DETENTION EASEMENT
- (39) EXISTING FIRE HYDRANT.

SHEET C-9.1.

- (40) NEW 4' WIDE CONCRETE SWALE.
- 41 TAPER CURB. REFER TO DETAIL ON C5.1 PAVING PLAN.
- (42) NEW CONCRETE WALK AND TYPE 10 RAMP PER TXDOT STANDARDS. TRUNCATED DOME PLATES TO BE COLONIAL OR BRICK RED IN COLOR. REFER TO DETAIL SHEET C9.2. NEW WALK TO MATCH EXISTING IN LOCATION AND ELEVATION.
- (43) NEW 4'X4'X4" CONCRETE PAD FOR REMOTE FDC.
- (44) NEW CONCRETE STEPS. 2- 8" TREADS/6" RISERS.
- 45 NEW CONCRETE PAD FOR ELECTRIC TRANSFORMER.
- (46) NEW FLOW OPENING IN CURB (TYPICAL OF 7). REFER TO DETAIL ON
- 47 NEW EDGE OF CONCRETE PAVEMENT (NO CURB).
- 48 NEW 2' LONG X 2' WIDE X 12" THICK ROCK BLANKET (TXDOT COMMON RIPRAP) OVER FILTER FABRIC (TYPE 1).
- (49) NEW 1' WIDE X 12" THICK ROCK BLANKET (TXDOT COMMON RIPRAP) OVER FILTER FABRIC (TYPE 1).

 $\langle 50 \rangle$  NEW 2' WIDE CONCRETE MOW STRIP. REFER TO DETAIL ON SHEET C-9.0. "AS-BUILT DRAWINGS" 8/30/17 CITY CASE #SP2016-009



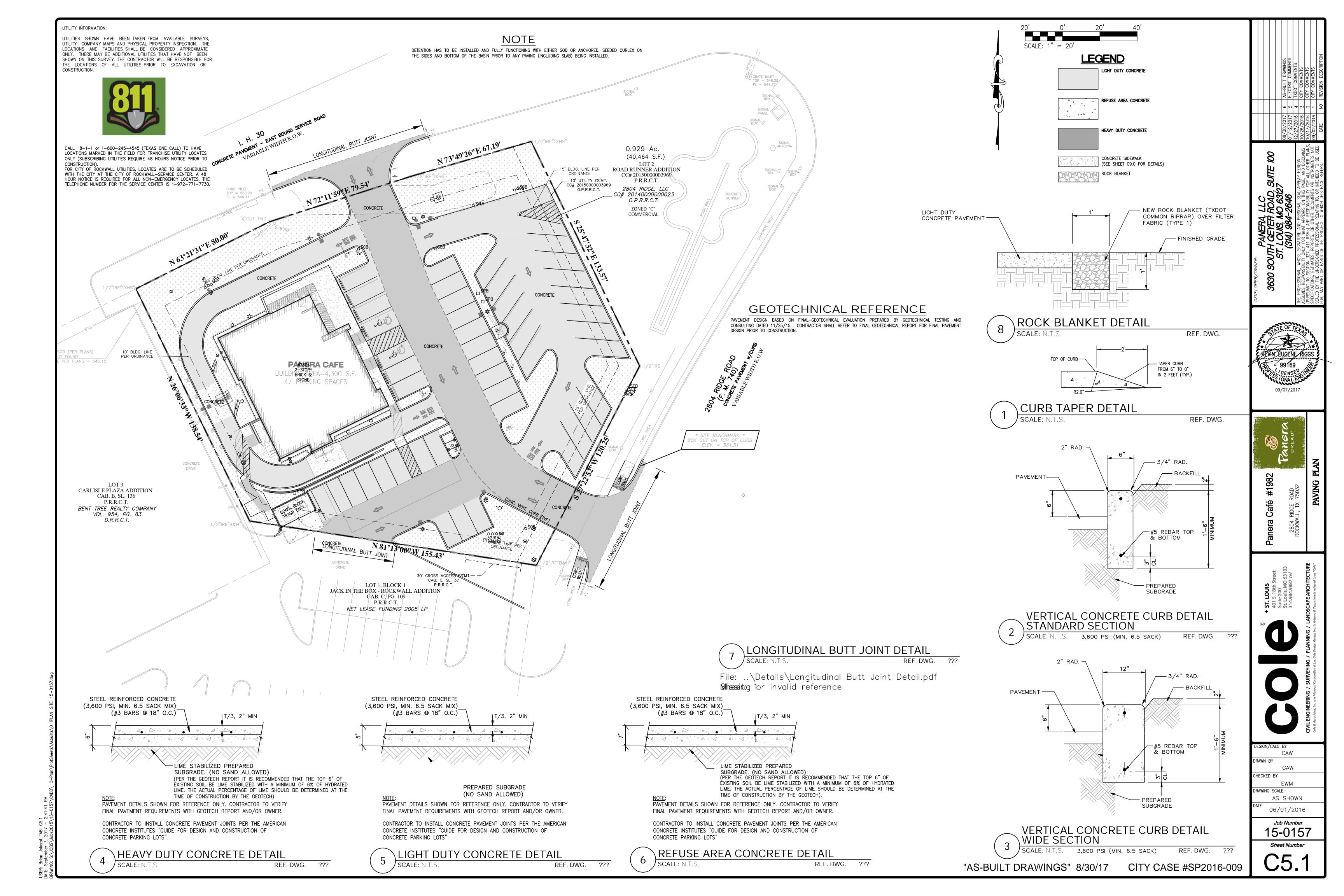


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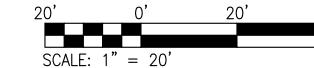
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06/01/2016 Job Number

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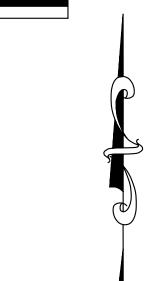




### LEGEND

HP HIGH POINT IN GRADE LP LOW POINT IN GRADE TC TOP OF CURB BC BOTTOM OF CURB TOP OF PAVEMENT EX EXISTING SHOT ME MATCH EXISTING EDGE CONCRETE TR TOP RAMP BR BOTTOM RAMP GROUND SHOT TB TOP OF BERM

TS TOP OF STEP

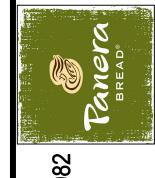


# **GRADING NOTES:**

A. REFER TO SHEET C4.0 FOR DEMOLITION PLAN. B. REFER TO SHEET C5.0 FOR SITE PLAN. C. REFER TO SHEET C8.0 FOR UTILITY PLAN.

### NOTE

DETENTION HAS TO BE INSTALLED AND FULLY FUNCTIONING WITH EITHER SOD OR ANCHORED, SEEDED CURLEX ON THE SIDES AND BOTTOM OF THE BASIN PRIOR TO ANY PAVING (INCLUDING SLAB) BEING INSTALLED.



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> 06/01/2016 Job Number

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"AS-BUILT DRAWINGS" 8/30/17

CITY CASE #SP2016-009

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE

DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND

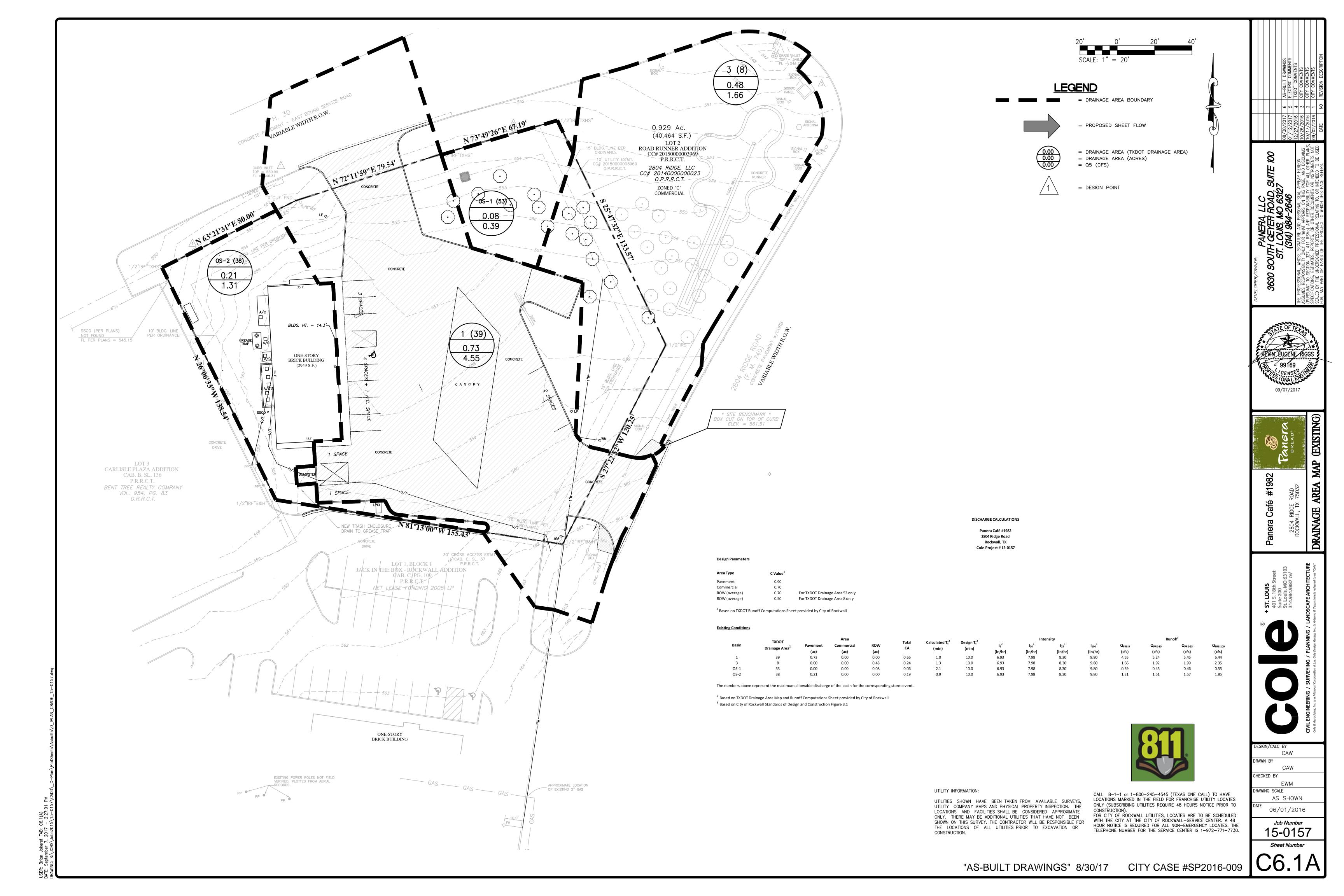
RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO

RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

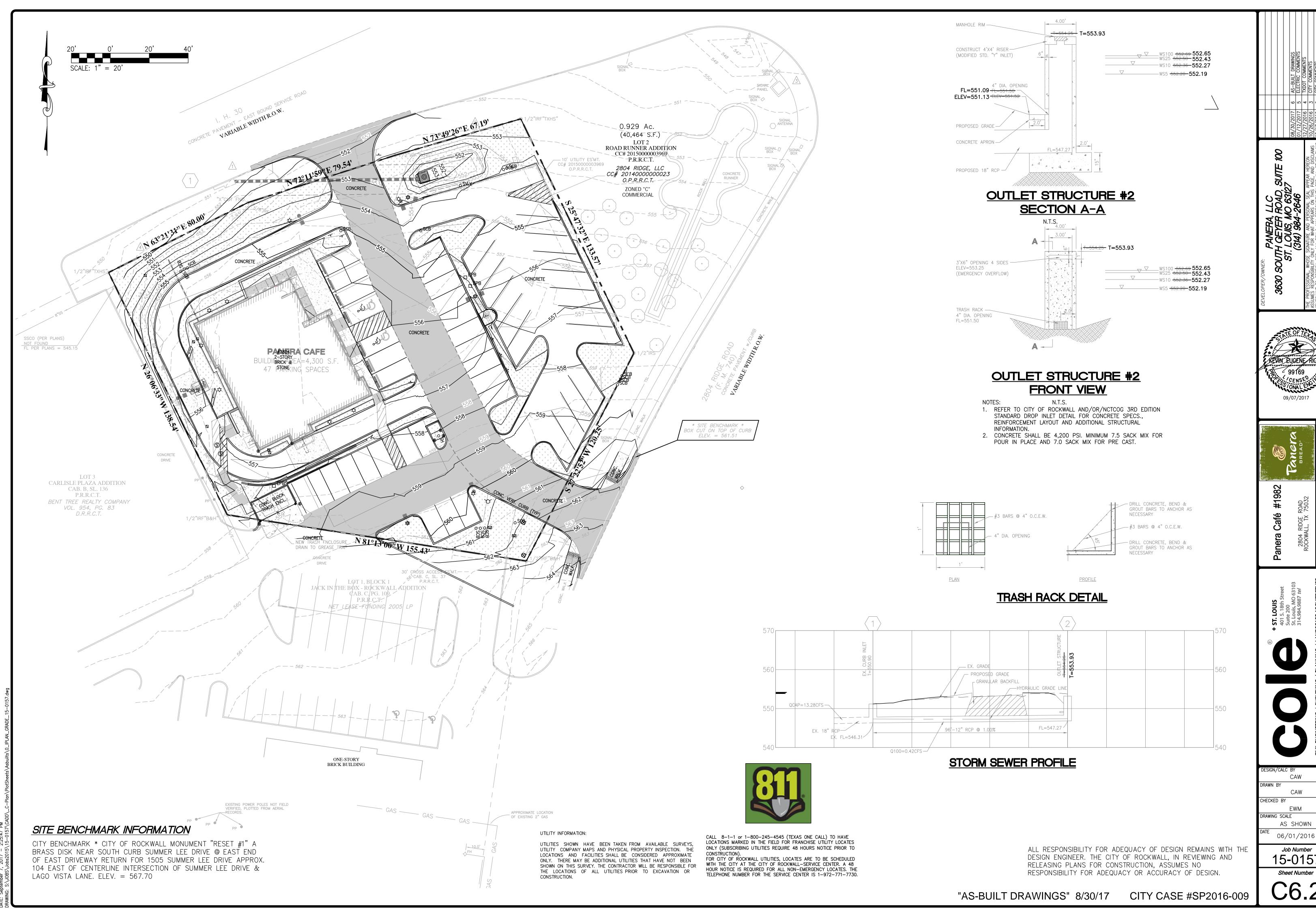
UTILITY INFORMATION:

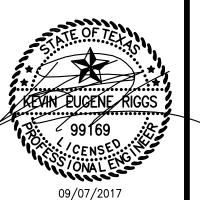
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CAW EWM DRAWING SCALE AS SHOWN

> Job Number 15-0157

$\frac{\text{gn Parameters}}{\text{Q}_{\text{ALL-5}}} = 0.31$ $\frac{\text{ge Volume}}{\text{torm Duration}} \qquad \qquad \text{I}_{5}^{2,3}$ $(\text{min}) \qquad \qquad \text{(in/hr)}$	1 cfs 3 <b>Q</b> ₅	Inflo	1982 oad TX 5-0157 Volume w Outf	Outf low Dura		Stora quired Si prage	n Parameters  Q <sub>ALL-10</sub> =  ge Volume  orm Duration  (min)	0.36 I <sub>10</sub> <sup>2,3</sup> (in/hr)		VOLUME CALCU Panera Café 2804 Ridge Rockwall Cole Project #	Road TX 15-0157 Volume ow Out		Outflow Duration (min)	Storage V  Required Storm Storage	<sub>ALL-25</sub> =	0.37 I <sub>25</sub> <sup>2,3</sup> (in/hr)	2804 I Roc	CALCULATIONS (2 a Café #1982 Ridge Road kwall, TX ject # 15-0157 Volum Inflow (ft <sup>3</sup> )		Outflow Duration (min)	Required Storage (ft³)	Design Parameters  Q <sub>ALL-100</sub> =  Storage Volume  Storm Duration  (min)	0.44 I <sub>100</sub> <sup>2,3</sup> (in/hr)	Pane 280 <sup>4</sup> Ro	CALCULATIONS (100) ra Café #1982 Ridge Road ockwall, TX roject # 15-0157  Volume Inflow (ft <sup>3</sup> )		Outflow Duration (min)
rable Release Rate  Q <sub>ALL-5</sub> (BASIN 1-B) = Q <sub>ALL-10</sub> (BASIN 1-B) = Q <sub>ALL-10</sub> (BASIN 1-B) = Q <sub>ALL-100</sub> (BASIN 1-B) =	Design and Constructi	on Figure 3.1		C	Q <sub>PRE-5</sub> (BASIN 1) - Q <sub>PC</sub> Q <sub>PRE-10</sub> (BASIN 1) - Q <sub>PC</sub> Q <sub>PRE-25</sub> (BASIN 1) - Q <sub>PC</sub>	<sub>ST-10</sub> (BASIN 1-A) = <sub>ST-25</sub> (BASIN 1-A) =					0.31 cfs 0.36 cfs 0.37 cfs 0.44 cfs			15-0157_PondPack N Bullt.ppc 9/7/2017	/odel (100-Year) - As-	Ce 27 Slemon Compa	Haestad Methods Solution center any Drive Suite 200 W 5 USA +1-203-755-1666		Bentley PondPack V8I [08.11.01.56] Page 1 of 2		Built	0157_PondPack Model (100-Year) - A t.ppc 2017	• •	ic. Haestad Methods Solutio Center npany Drive Suite 200 W 3795 USA +1-203-755-1666		Bentley PondPack V8i [08.11.01.56] Page 1 of 2	6]
d on TXDOT Drainage Area Map and d on City of Rockwall Standards of December 2015    Conditions   TXDOT	Pavement (ac) 0.68 0.08 0.00 0.00 0.20	Area Commercial (ac) 0.00 0.00 0.00 0.08 0.00	ROW (ac) 0.00 0.00 0.46 0.00 0.00	0.61 1 0.07 1 0.23 1 0.06 2	ated T <sub>c</sub> <sup>2</sup> Design hin) (min 0 10.0 0 10.0 3 10.0 2.1 10.0	) (in/hr) 6.93 6.93 6.93 6.93	Inte I <sub>10</sub> <sup>2</sup> (in/hr) 7.98 7.98 7.98 7.98 7.98	tensity  I <sub>25</sub> <sup>3</sup> (in/hr)  8.30  8.30  8.30  8.30  8.30	l <sub>100</sub> <sup>3</sup> (in/hr) 9.80 9.80 9.80 9.80 9.80	Q <sub>POST-5</sub> (cfs) 4.24 0.50 1.59 0.39 1.25	Runoff Q <sub>POST-10</sub> (cfs) 4.88 0.57 1.84 0.45 1.44	Q <sub>POST-25</sub> (cfs) 5.08 0.60 1.91 0.46 1.49	Q <sub>POST-100</sub> (cfs) 6.00 0.71 2.25 0.55 1.76									553.25 0.58 553.69 7.51 553.93 7.64	0.017 0.025 0.031	0.018 0.6 0.022 0.6 0.024 0.6	00 7.51	8.58 19.72 22.49	
C Value  1. 0.90 1. 0.70 1. 0.70 1. 0.50 1. TXDOT Runoff Computations Shape Sh	For TXDOT Drain  Sheet provided by City  Pavement (ac) 0.73 0.00 0.00 0.21	Area Commercial (ac) 0.00 0.00 0.00 0.00	ROW (ac) 0.00 0.48 0.08 0.00 corresponding storn	0.66 1 0.24 1 0.06 2 0.19 0	ated T <sub>c</sub> <sup>2</sup> Design nin) (min 0 10.0 3 10.0 1 10.0	(in/hr) (in/hr) (6.93 (6.93	Inte I <sub>10</sub> <sup>2</sup> (in/hr) 7.98 7.98 7.98 7.98	tensity  I <sub>25</sub> <sup>3</sup> (in/hr)  8.30  8.30  8.30  8.30	I <sub>100</sub> <sup>3</sup> (in/hr) 9.80 9.80 9.80 9.80	Q <sub>PRE-5</sub> (cfs) 4.55 1.66 0.39 1.31	Runoff Q <sub>PRE-10</sub> (cfs) 5.24 1.92 0.45 1.51	Q <sub>PRE-25</sub> (cfs) 5.45 1.99 0.46 1.57	Q <sub>PRE-100</sub> (cfs) 6.44 2.35 0.55 1.85	Contribu  (no Q: Riser - 1 Orifice - 1,Culve	-	0.00 0.24 0.38 0.48 0.57 0.58 7.51 7.64	(N/A)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			Ir	Infiltration Infiltration Method (Computed) Initial Conditions Elevation (Water Surface, Initial) Volume (Initial) Flow (Initial Outlet) Flow (Initial Infiltration) Flow (Initial, Total) Time Increment  Elevation Outflow (ft³/s)  551.19 0.00 551.69 0.24 552.19 0.38 552.69 0.48 553.19 0.57	(ac-ft) (ac 0.000 0.001 0.003 0.008 0.015	rea Infiltration (ft³/s)  0.000 0.003 0.0  0.007 0.0  0.012 0.0  0.017 0.0	(ft³/s) 00 0.00 00 0.24 00 0.38 00 0.48 00 0.57	2.S/t + O (ft <sup>3</sup> /s) 0.00 0.53 1.88 4.32 8.06	
'arameters						Panera Café #19 2804 Ridge Roa Rockwall, TX Cole Project # 15-	d							Label: Comp	Composite Rating ( osite Outlet Structu		Storm Evel	Return E nt: City of Rockwa	Event: 100 years all, TX - 100 Year		L 	Subsection: Elevation-Volu abel: PO-1	me-Flow Table (Pond)		Return Ev ent: City of Rockwa <b>ll</b>	rent: 100 years I, TX - 100 Year	

**POND SUMMARY** 

-105

2.50

2.40

2.30

 $^{3}$  Based on City of Rockwall Standards of Design and Construction Figure 3.1

-119

-208

-267

110

0.18

0.17

0.17

<sup>2</sup> Based on TXDOT Drainage Area Map and Runoff Computations Sheet provided by City of Rockwall

1185

1293

1037

110

120

Panera Café #1982 2804 Ridge Road Rockwall, TX Cole Project # 15-0157 2.90

2.70

2.50

<sup>3</sup> Based on City of Rockwall Standards of Design and Construction Figure 3.1

0.21

0.18

<sup>2</sup> Based on TXDOT Drainage Area Map and Runoff Computations Sheet provided by City of Rockwall

1128

1166

1188

100

110

120

	Pond Sum	nmary		
	5-Year Event	10-Year Event	25-Year Event	100-Year Even
Maximum Allowable Discharge (cfs)	0.31	0.36	0.37	0.44
Actual Discharge (cfs)	0.30	0.34	0.37	0.42
Water Surface Elevation	552.19	552.27	552.43	552.65
Freeboard (Top of Pond = 553.93)	1.74	1.66	1.50	1.28
Required Storage Volume (ft <sup>3</sup> )	157	191	265	365
Provided Storage Volume (ft <sup>3</sup> )	159	195	268	367

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.



Required Storage

14

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AS SHOWN 06/01/2016

Job Number 15-0157

Sheet Number

1323

1455

1588

1469

1521

100

110

2.10

1.90

<sup>3</sup> Based on City of Rockwall Standards of Design and Construction Figure 3.1

100

110

0.15

0.14

0.13

<sup>2</sup> Based on TXDOT Drainage Area Map and Runoff Computations Sheet provided by City of Rockwall

816

821

1029

1123

"AS-BUILT DRAWINGS" 8/30/17 CITY CASE #SP2016-009

3.50

3.40

3.20

<sup>3</sup> Based on City of Rockwall Standards of Design and Construction Figure 3.1

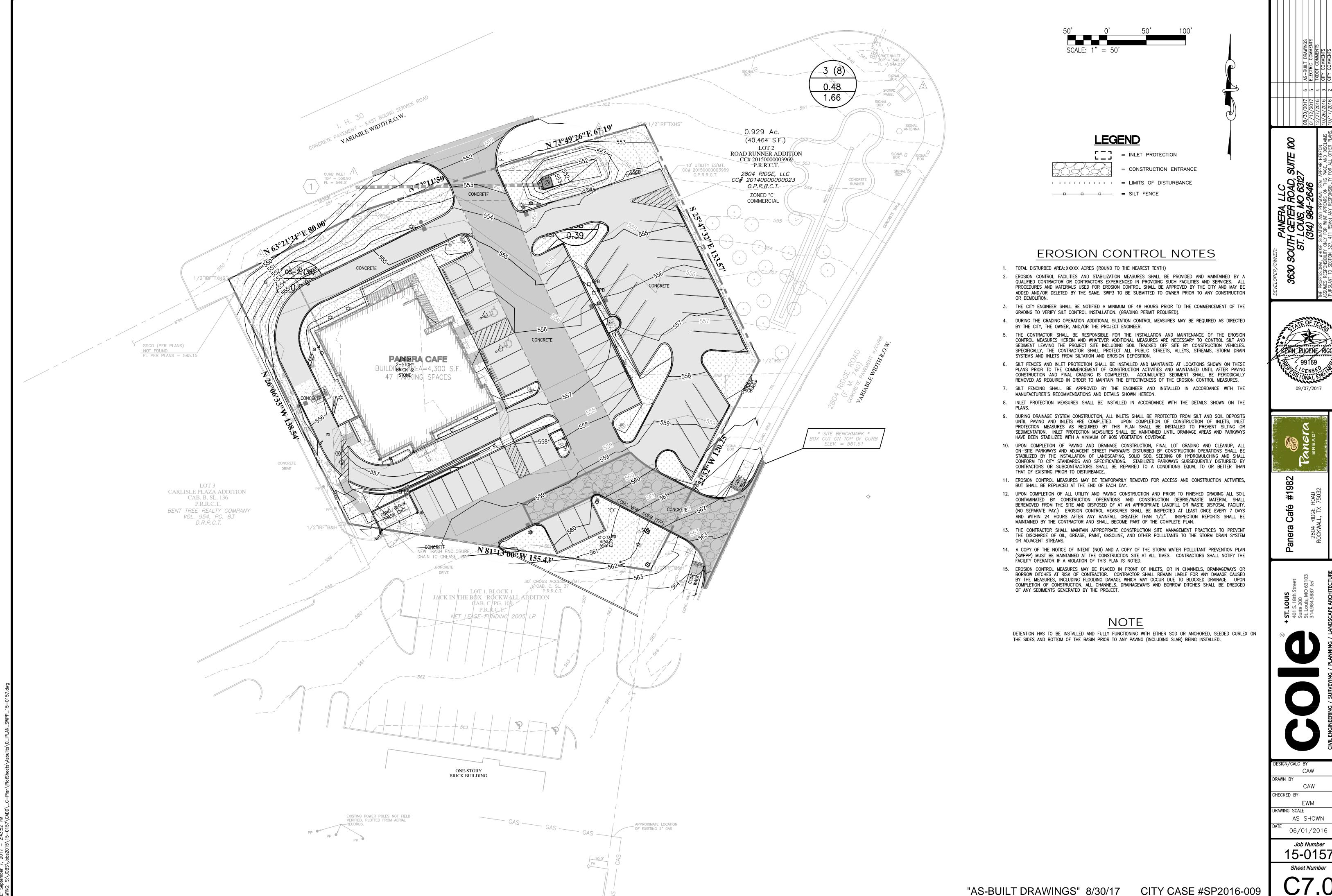
100

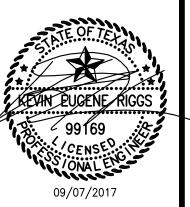
0.25

0.24

0.23

<sup>2</sup> Based on TXDOT Drainage Area Map and Runoff Computations Sheet provided by City of Rockwall







#### SILT FENCE GENERAL NOTES:

- 1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
- 2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER
- 3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- 4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WIRE BACKING, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- 5. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 6. SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
- 7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

1. STONE SHALL BE 4 TO 6 INCH DIAMETER COARSE

3. THE THICKNESS SHALL NOT BE LESS THAN 12 INCHES.

WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA

4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL

5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE

STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH

WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH

7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE

STANDARD SPECIFICATION REFERENCE

201.11

OCT. '04 1070B

STANDARD DRAWING NO.

ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT

A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE

8. PREVENT SHORTCUTTING OF THE FULL LENGTH OF THE CONSTRUCTION ENTRANCE BY INSTALLING BARRIERS AS

9. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP.

SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED

SURFACES MUST BE REMOVED IMMEDIATELY.

CONSTRUCTION SITE.

STABILIZED CONSTRUCTION

ENTRANCE

NECESSARY.

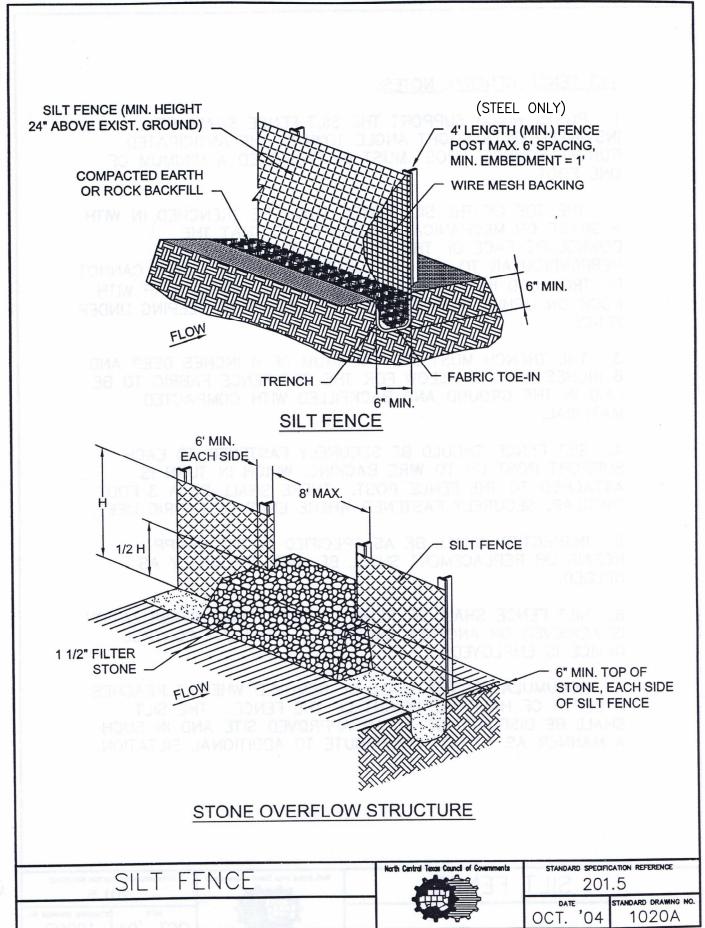
SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN

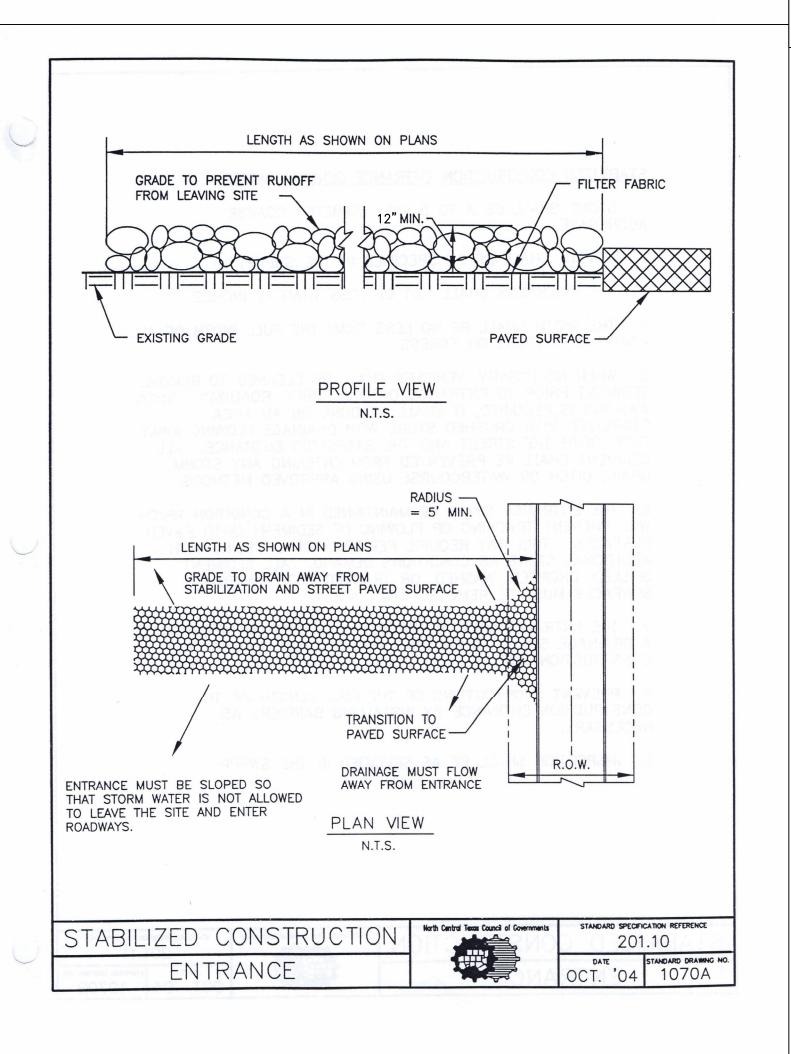
2. LENGTH SHALL BE AS SPECIFIED IN THE SWPPP.

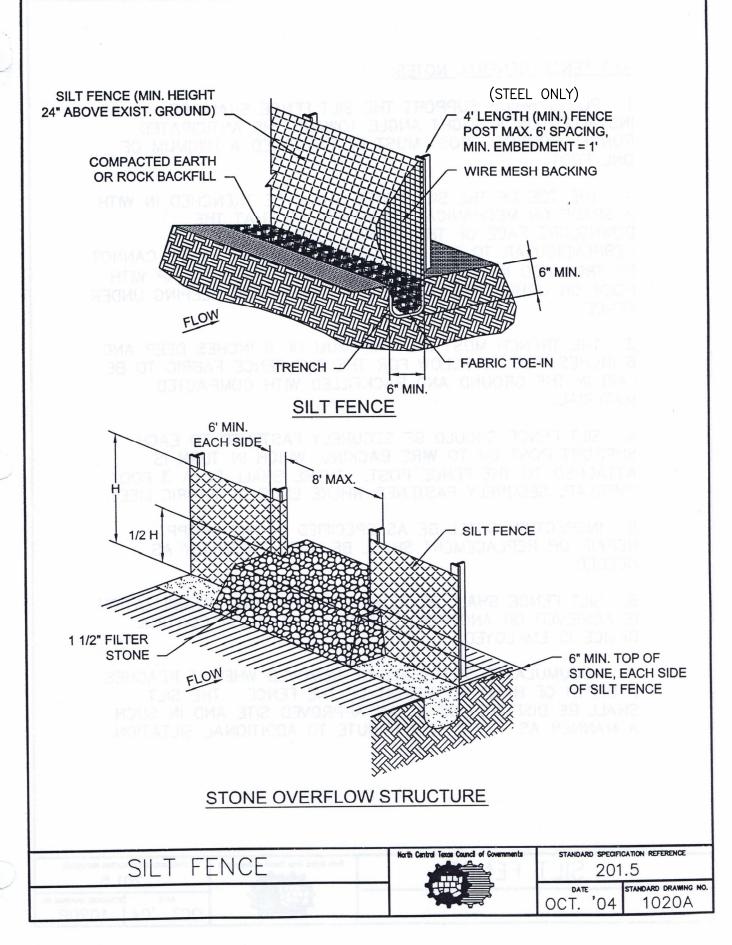
AGGREGATE. (NO CRUSHED CONCRETE ALLOWED)

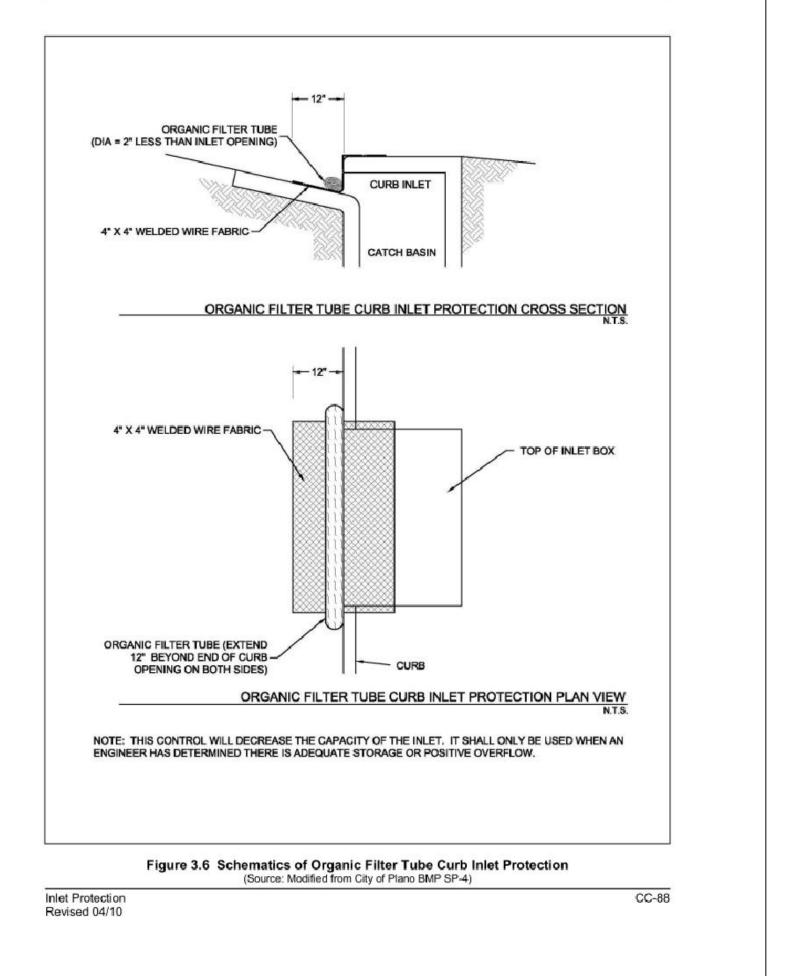
POINTS OF INGRESS OR EGRESS.

SILT FENCE	North Central Tesses Council of Governments		ICATION REFERENCE	
OCT. '04 10		OCT. '04	STANDARD DRAWING NO. 1020B	



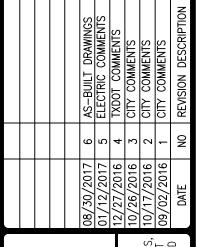


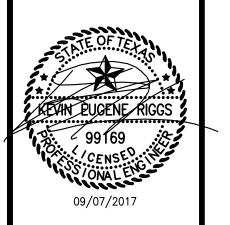




Construction Controls

iSWM<sup>™</sup> Technical Manual

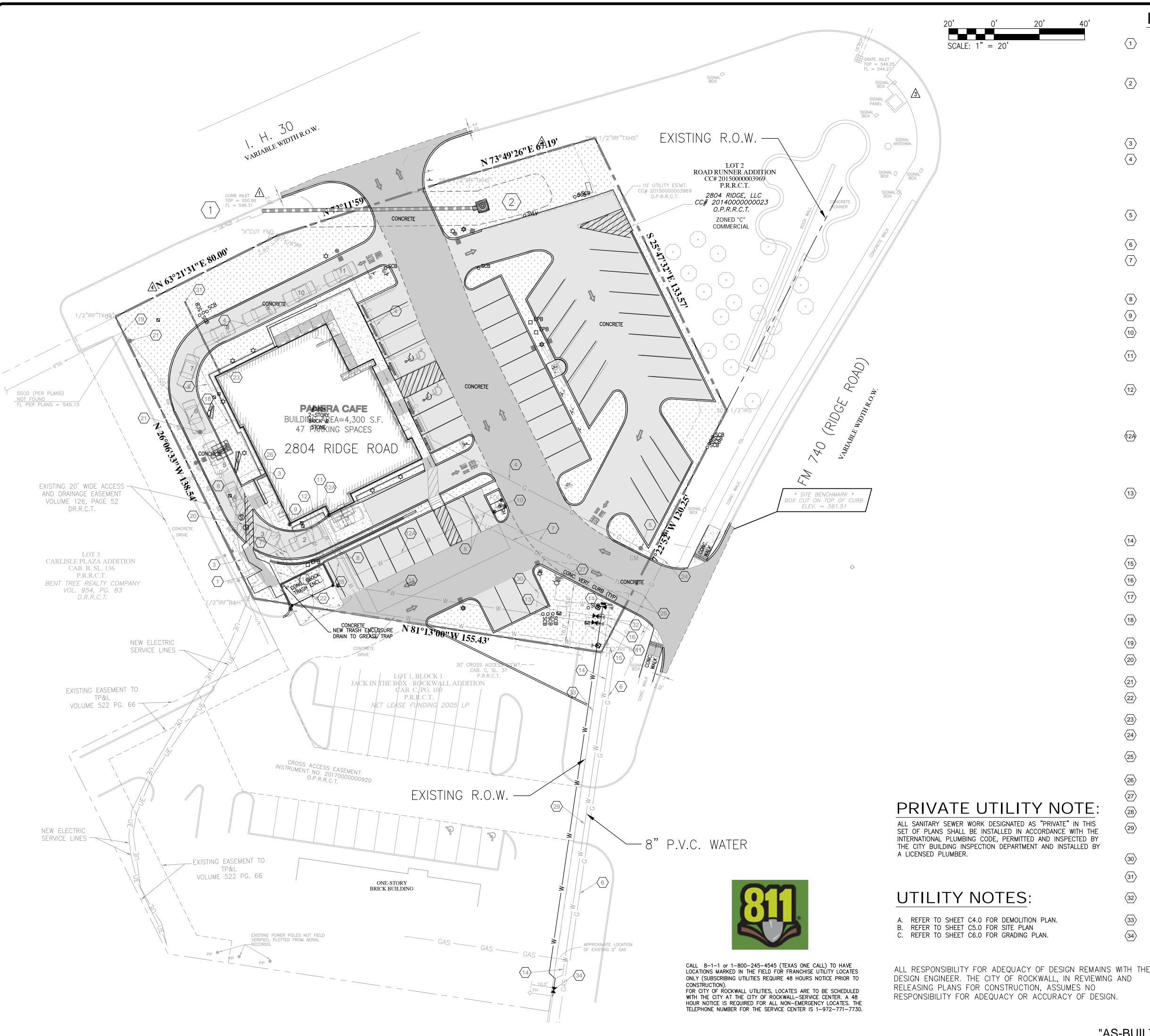






DRAWN BY CAW CHECKED BY EWM DRAWING SCALE AS SHOWN 06/01/2016

Job Number 15-0157 Sheet Number



### **KEYED NOTES:**

- NEW GROUND MOUNTED TRANSFORMER (PER ONCOR STANDARDS). ONCOR TO PROVIDE AND INSTALL THE TRANSFORMER. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING THE CONCRETE PAD PER ONCOR REQUIREMENTS.
- NEW PRIMARY, UNDERGROUND ELECTRIC SERVE TO THE NEAREST POINT OF CONNECTION AS DIRECTED BY ONCOR. ONCOR TO SIZE CONDUIT AND PROVIDE AND PULL CONDUCTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING THE CONDUIT. CONTRACTOR SHALL CONTACT ONCOR AS SOON AS POSSIBLE TO ACCOMMODATE REQUIRED LEAD TIME FOR DESIGN AND COORDINATION OF NEW SERVICE.
- NEW SECONDARY UNDERGROUND ELECTRIC SERVICE
- NEW 1-1/4" GAS SERVICE FROM NEW METER TO THE BACK OF BUILDING. THIS SERVICE IS TO BE INSTALLED BY AN ATMOS ENERGY APPROVED CONTRACTOR AT THE OWNER'S EXPENSE. THE GENERAL CONTRACTOR SHALL CONTACT ATMOS ENERGY AS SOON AS POSSIBLE TO ACCOMMODATE REQUIRED LEAD TIMES FOR DESIGN AND COORDINATION OF NEW SERVICE.
- NEW GAS METER (BY ATMOS ENERGY). THE GENERAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE METER WITH ATMOS ENERGY PRIOR TO THE START OF CONSTRUCTION.
- NEW GAS LINE EXTENSION (PER ATMOS STANDARDS).
- NEW (1) 4" CONDUIT AND PULL STRING FOR TELEPHONE SERVICE AND (1) 2" CONDUIT AND PULL STRING FOR TELEVISION. COORDINATE ENTRY POINT WITH ELECTRICAL PLANS AND FINAL TERMINATION POINT WITH SERVICE PROVIDER.
- MAINTAIN 18" VERTICAL CLEARANCE AT ALL UTILITY CROSSINGS (TYPICAL)
- NEW 3/4" DOMESTIC WATER TO FREEZE PROOF HOSE BIB. (PRIVATE)
- NEW FIRE DEPARTMENT CONNECTION (FDC). PER ROCKWALL FIRE DEPARTMENT STANDARDS. SEE NOTES AND DETAILS SHEET C9.4.
- NEW 150'-2" SDR-9 POLY DOMESTIC WATER SERVICE AND METER W/TESTABLE BACKFLOW PREVENTION DEVICE AND DOUBLE CHECK VALVE. (PRIVATE)
- NEW 150'-6" PVC (200 PSI PER ASTM D1784 AND D2241) FIRE SERVICE (PRIVATE); 1-6"X8" TEE; 1-6" GATE VALVE. SIZE TO BE VERIFIED BY FIRE SPRINKLER CONTRACTOR. FIRE SERVICE LINE TO BE MIN. 10' SEPARATION FROM ALL OTHER UTILITIES AND REQUIRES A SEPARATE PERMIT FROM THE FIRE DEPARTMENT.
- NEW 106'-6" PVC (200 PSI PER ASTM D1784 AND D2241) FIRE SERVICE TO FDC (PRIVATE. SIZE TO BE VERIFIED BY FIRE SPRINKLER CONTRACTOR. FIRE SERVICE LINE TO BE MIN. 10' SEPARATION FROM ALL OTHER UTILITIES AND REQUIRES A SEPARATE PERMIT FROM THE FIRE DEPARTMENT.
- NEW STUB AND 1-1/2" METER FOR PROPOSED IRRIGATION AROUND PROPOSED BUILDING (PRIVATE). COORDINATE STUB AND METER SIZE WITH PROPOSED IRRIGATION SYSTEM DESIGN (BY OTHERS). ALL METERED WATER SERVICES TO HAVE A TESTABLE BACKFLOW PREVENTER WITH DOUBLE CHECK VALVE.
- NEW 175' AWWA C900 PVC PIPE SDR 14 8" WATER MAIN (PUBLIC). INSTALL 8" PLUG AT TERMINAL END.
- NEW FIRE WATER POINT OF CONNECTION (8"X6" TEE).
- NEW DOMESTIC WATER POINT OF CONNECTION (8"X2" TEE).
- NEW 6" GREASE WASTE SANITARY SERVICE @ 2.0% MINIMUM SLOPE.
- NEW 6" PVC ASTM D3034, SDR35 SANITARY SEWER @ 2.0% MINIMUM SLOPE. (PRIVATE)
- NEW SANITARY POINT OF CONNECTION.
- NEW 1000 GALLON GREASE INSTALLED OVER COMPACTED SUBGRADE AND BACKFILLED WITH GRAVEL. REFER TO PLUMBING PLANS FOR DETAIL.
- NEW SANITARY SEWER CLEANOUT.
- NEW NEENAH R-4937-B FLOOR DRAIN OR EQUAL IN REFUSE ENCLOSURE.
- 6" PVC DOWNSPOUT DRAIN @ 2.00% MINIMUM SLOPE.
- NEW GAS SERVICE, CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY FOR CONNECTION.
- NEW TELEPHONE AND TELEVISION SERVICE, CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY FOR CONNECTION.
- NEW ELECTRICAL SWITCHGEAR AND METER.
- NEW FIRE HYDRANT; 1-8"X6" TEE; 1-8" GATE VALVE; 1-6" GATE VALVE
- NEW 50' CONCRETE ENCASED 6" PVC FIRE SERVICE
- NEW 24'-8" WATER MAIN BORED UNDER DRIVE ENTRANCE. CONTRACTOR SHALL PHASE CONSTRUCTION AND COORDINATE WITH ADJACENT PROPERTY OWNER AS NEEDED TO ENSURE EXISTING DRIVEWAY REMAINS OPEN.
- NEW 15' UTILITY EASEMENT.
- NEW POP-UP EMITTER (TOP = 553.50, FL = 552.50). REFER TO DETAIL ON SHEET CX.X.
- NEW IRRIGATION POINT OF CONNECTION (8"X1-1/2" TEE). FINAL STUB SIZE TO BE VERIFIED BY IRRIGATION SYSTEM DESIGNER.
- EXISTING RIGHT-OF-WAY LINE.
- NEW 8" GATE VALVE.

UTILITY INFORMATION:

UTILITIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE SURVEYS, UTILITY COMPANY MAPS AND PHYSICAL PROPERTY INSPECTION. THE LOCATIONS AND FACILITIES SHALL BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE ADDITIONAL UTILITIES THAT HAVE NOT BEEN SHOWN ON THIS SURVEY. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR

"AS-BUILT DRAWINGS" 8/30/17

09/07/2017

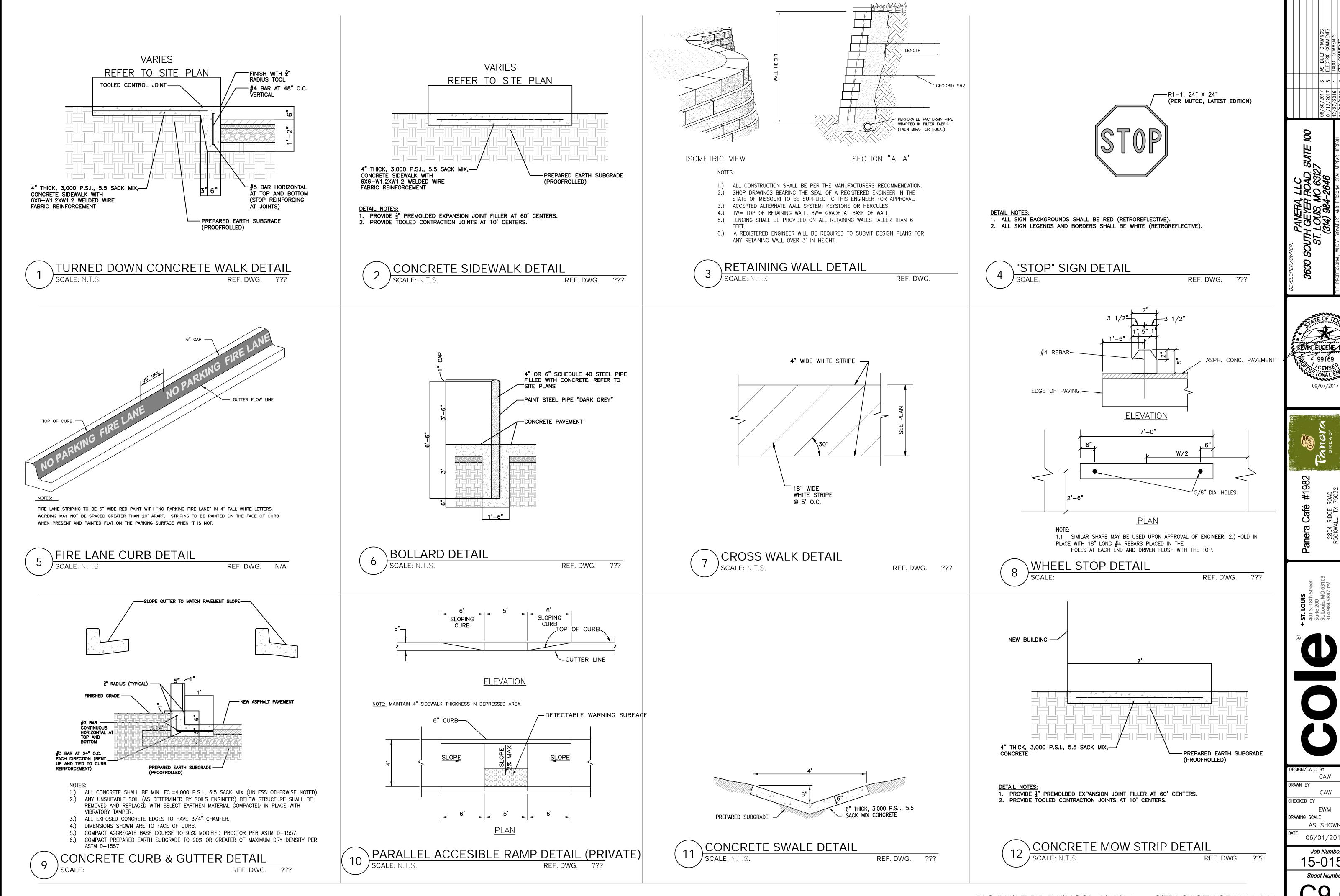


DRAWN BY CAW CHECKED BY EWM DRAWING SCALE AS SHOWN

06/01/2016 Job Number

15-0157 Sheet Number

CITY CASE #SP2016-009

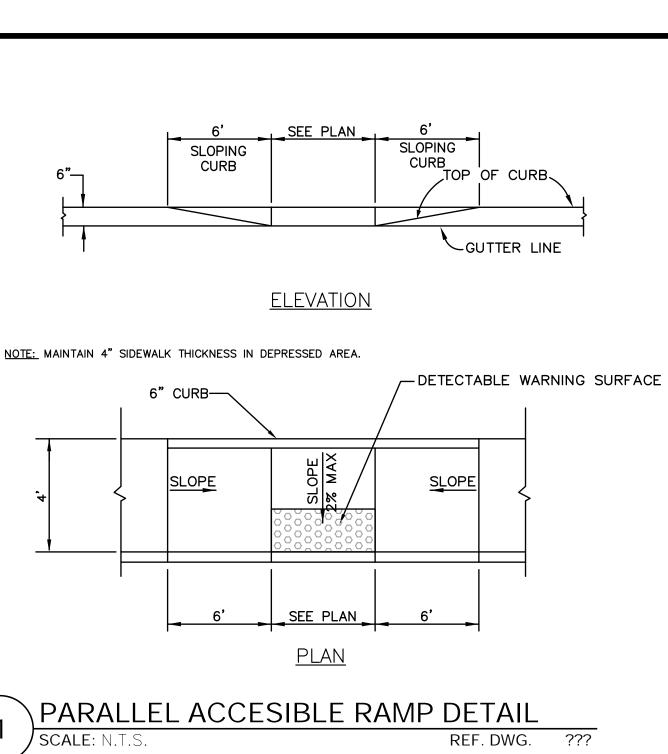


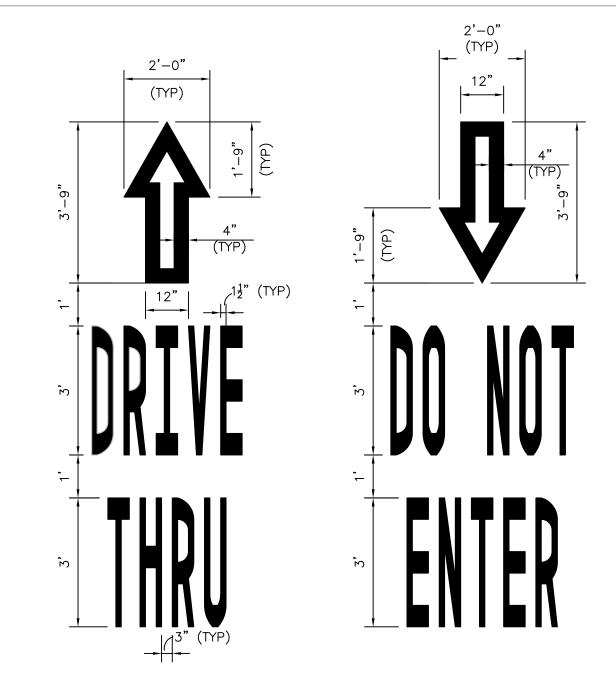
CAW CAW EWM

DRAWING SCALE AS SHOWN 06/01/2016

> Job Number 15-0157 Sheet Number

"AS-BUILT DRAWINGS" 8/30/17 CITY CASE #SP2016-009

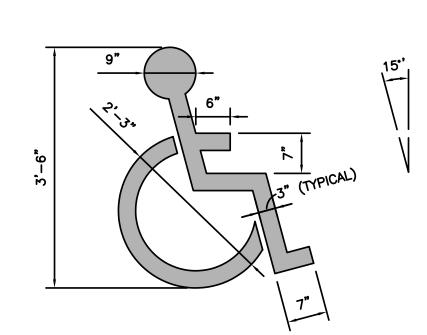




<u>DO NOT ENTER ARROW</u> DRIVE THRU ARROW

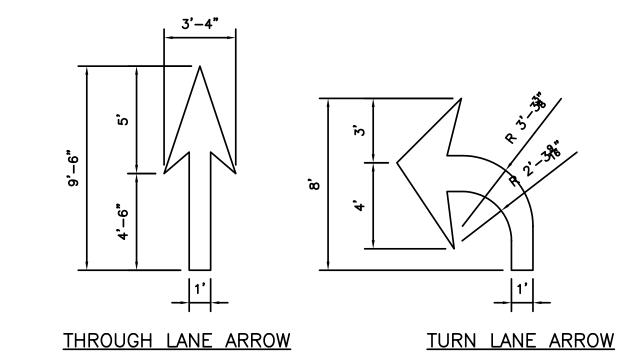
<u>DETAIL NOTES:</u>
1. ARROWS SHALL BE PAINTED SOLID REFLECTIVE YELLOW OR PER

DRIVE-THRU/DO NOT ENTER DETAIL SCALE: N.T.S. REF. DWG. ???



DETAIL NOTES:
1. SYMBOL COLOR SHALL COMPLY WITH ALL LOCAL REGULATIONS.

HANDICAP SYMBOL DETAIL SCALE: N.T.S. REF. DWG. ???



DETAIL NOTES:

1. RIGHT TURN ARROW TO BE THE REVERSE OF TURN LANE ARROW SHOWN ABOVE.

2. ARROWS SHALL BE PAINTED REFLECTIVE WHITE.

3. ARROWS SHALL BE APPLIED PER CHAPTER 3B OF THE MUTCD, LATEST EDITION.

TRAFFIC FLOW ARROW DETAIL REF. DWG. ???

-GROUND

SHEET FLOW-

─1/4" DIA LEACH

REF. DWG. ???

NDS #620 4" POLYOLEFIN POP-UP-DRAINAGE EMITTER, CENTER SPRING

LOADED DRIVE POP-UP WITH UV

INHIBITOR (OR APPROVED EQUAL)

GROUND —

SHEET FLOW ───

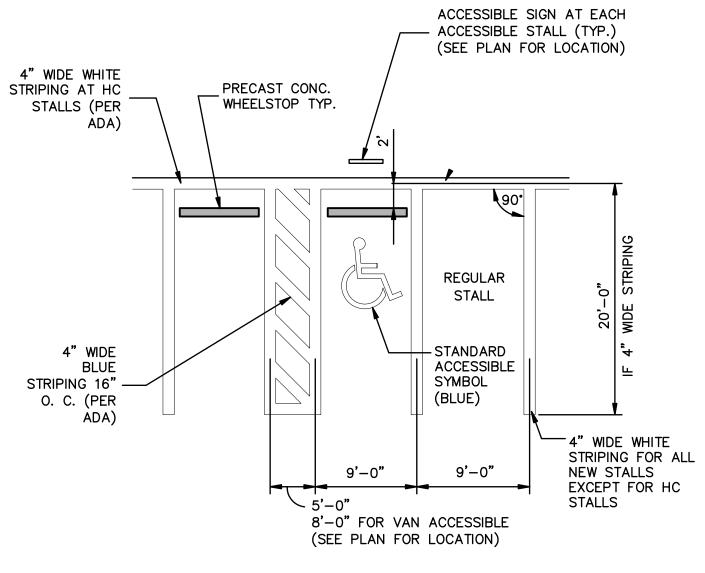
(1/4" BÉND SÉWÉR

UBBASE STONE (ASTM NO.2)

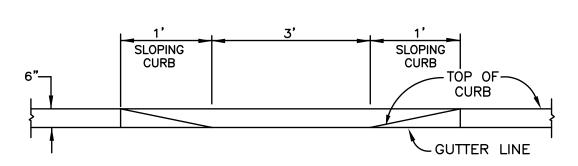
POP-UP EMITTER DETAIL

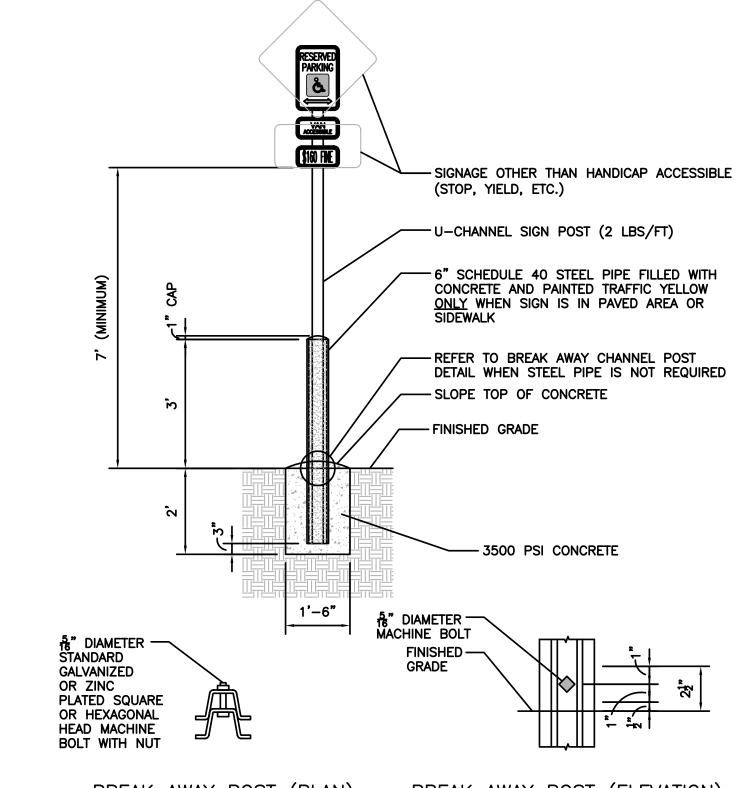


CURB OPENING DETAIL SCALE: N.T.S REF. DWG. ???



REF. DWG. ???

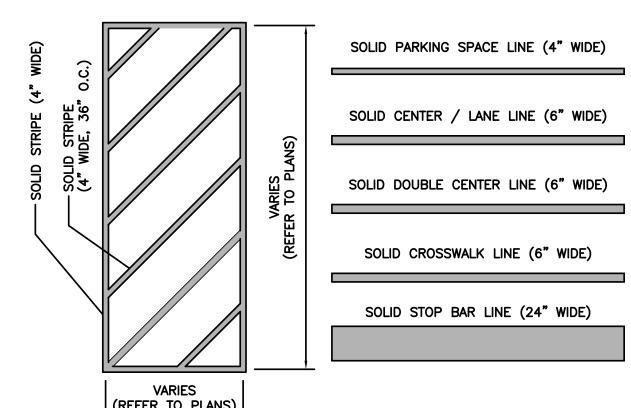


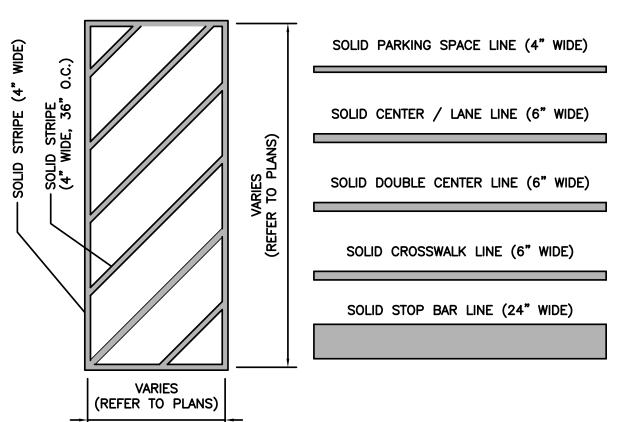


BREAK AWAY POST (PLAN) BREAK AWAY POST (ELEVATION)

DETAIL NOTES:
1. ALL SIGNS SHALL COMPLY WITH THE UNITED STATES DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (LATEST EDITION), AND LOCAL CODES AS SPECIFIED. 2. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.







09/07/2017

CAW CAW CHECKED BY EWM DRAWING SCALE AS SHOWN

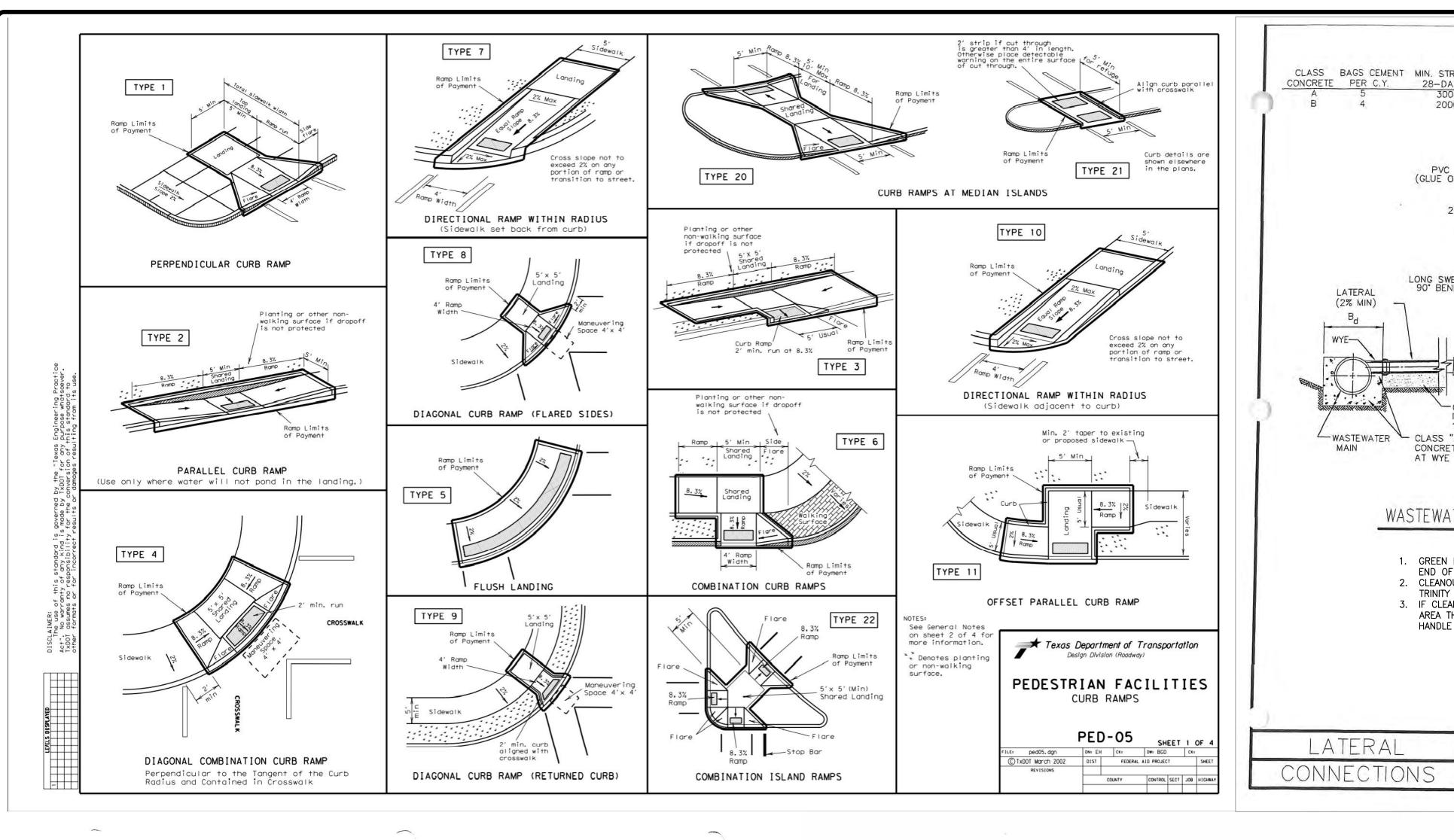
> Job Number 15-0157

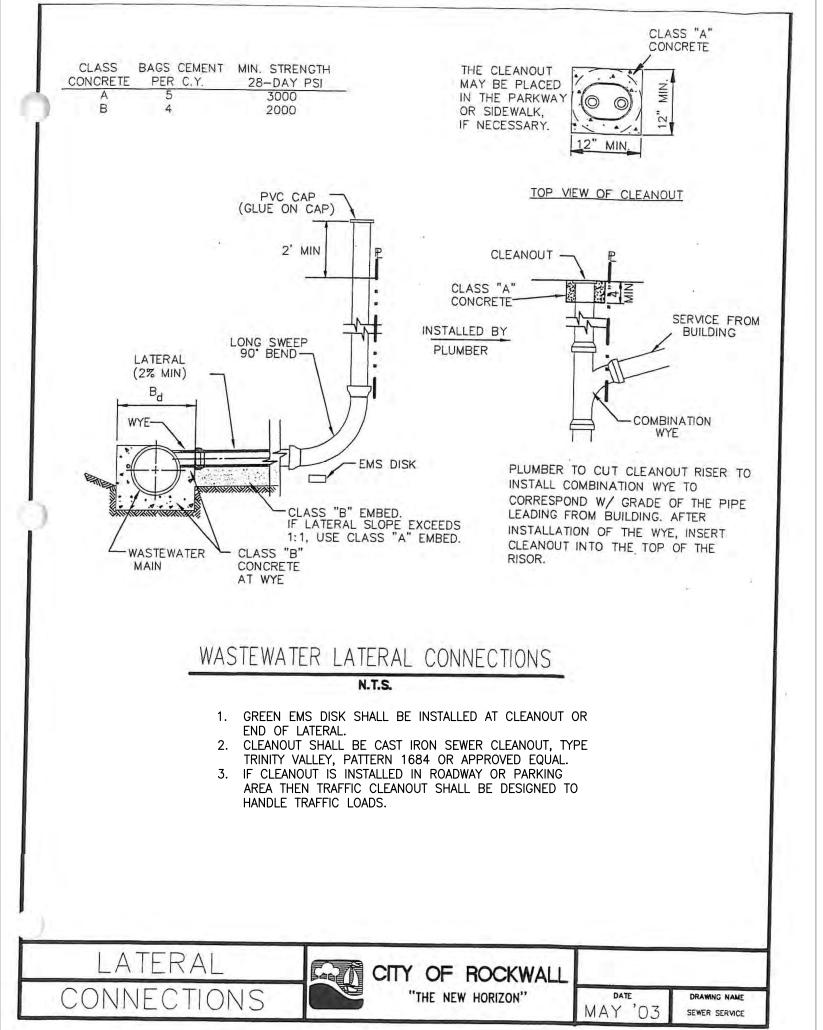
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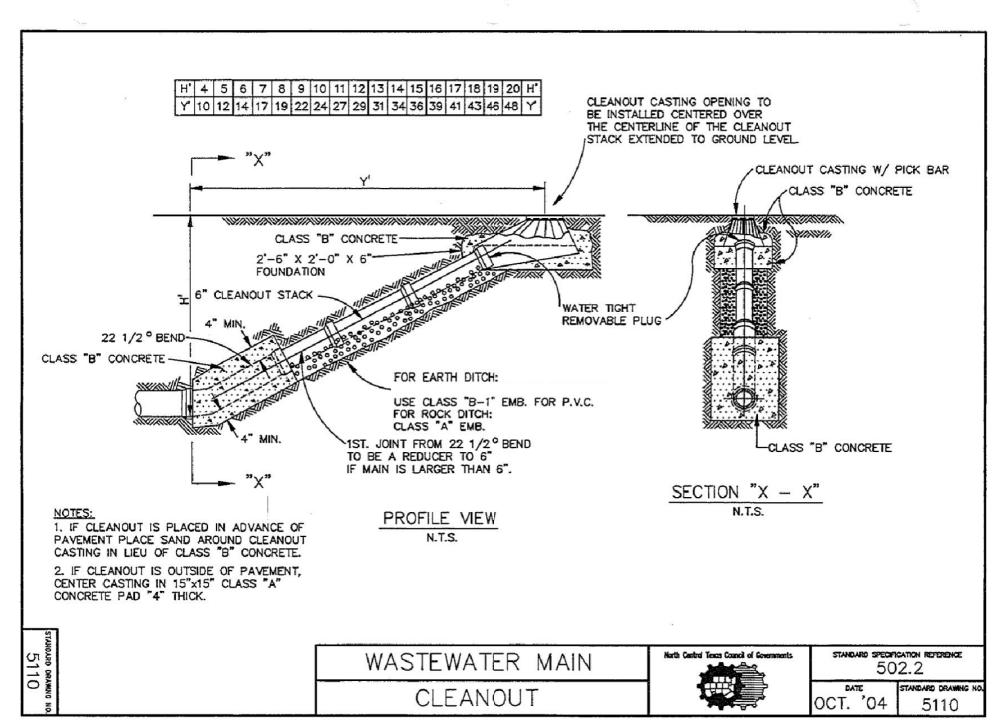
06/01/2016

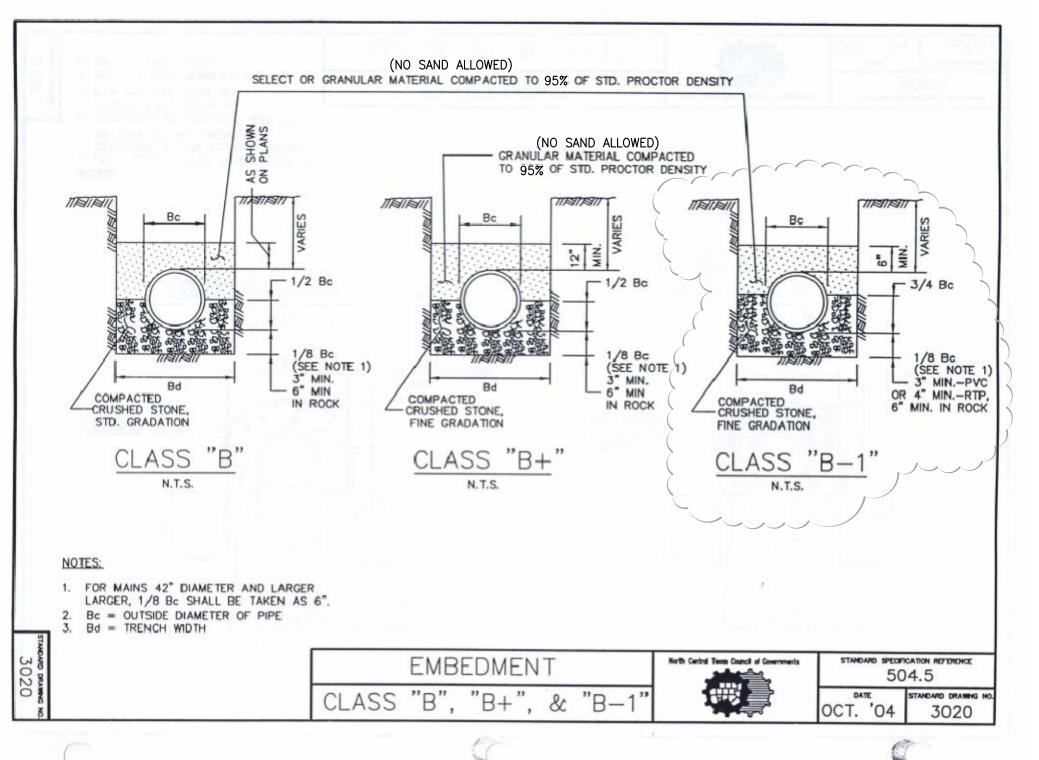
"AS-BUILT DRAWINGS" 8/30/17

CITY CASE #SP2016-009





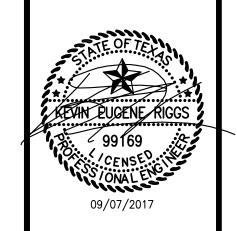




08/30/2017 6 AS-BUILT DRAWINGS 01/12/2017 5 ELECTRIC COMMENTS 12/27/2016 4 TXDOT COMMENTS 10/26/2016 3 CITY COMMENTS 10/17/2016 2 CITY COMMENTS 09/02/2016 1 CITY COMMENTS DATE NO REVISION DESCRIPTION

3630 SOUTH GEYER ROAD, SUITE 100
3630 SOUTH GEYER ROAD, SUITE 100
ST. LOUIS, MO 63127
(314) 984-2646

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401 S. 18th Street

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500 St. Louis, MO 63103

314.984.9887 tel

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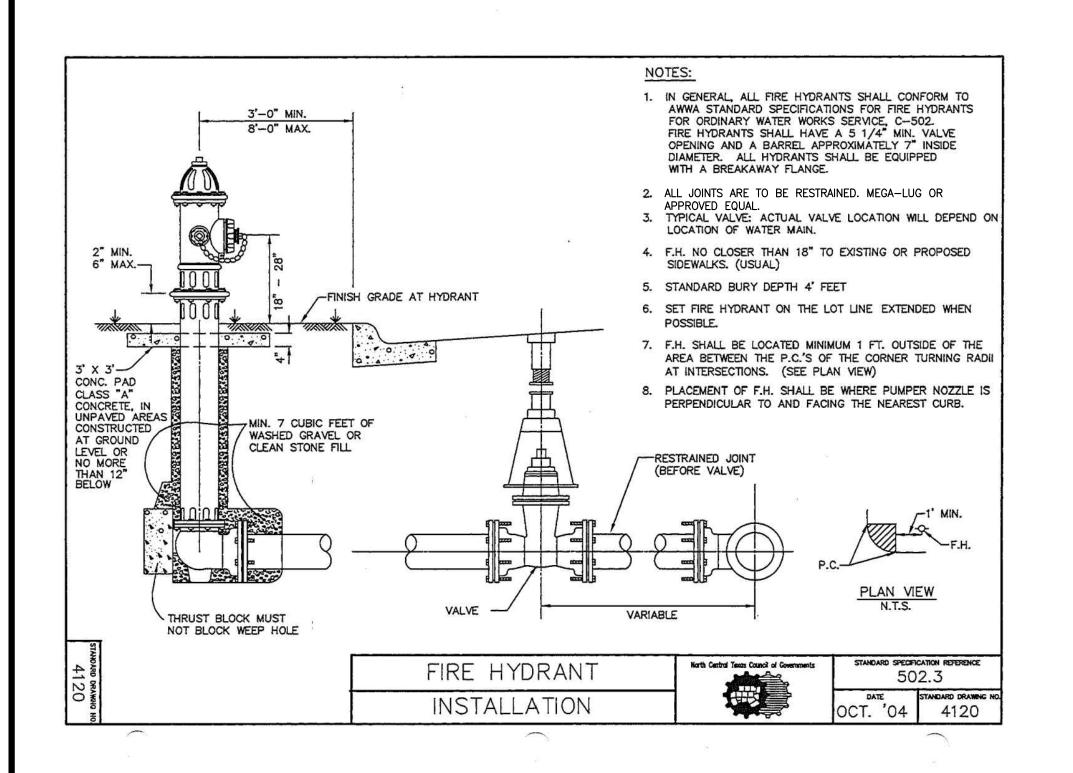
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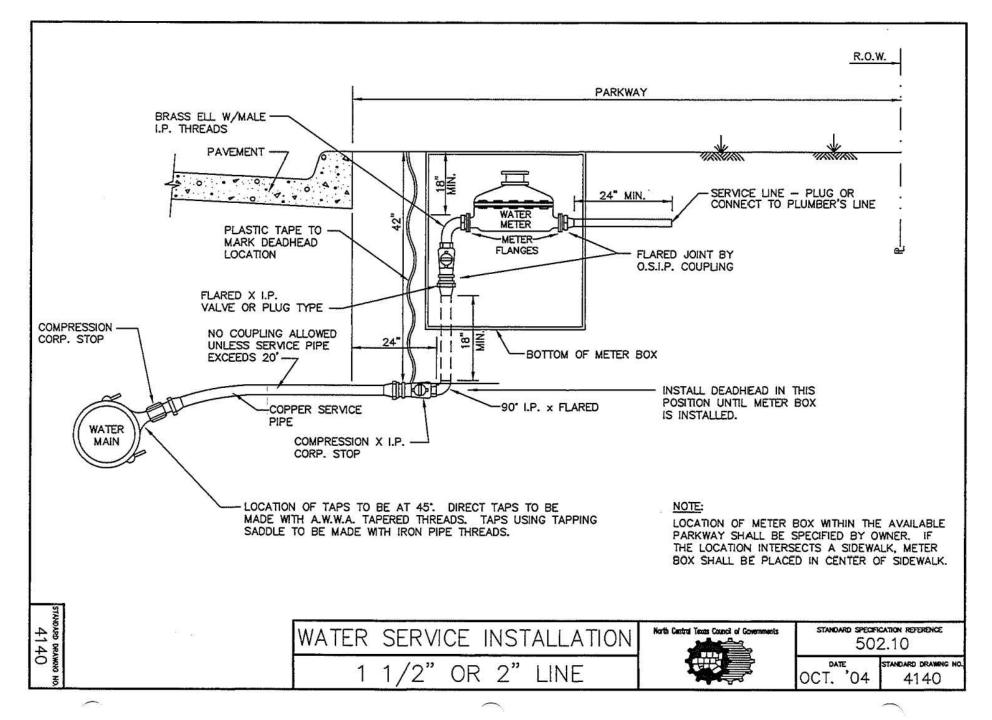
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WATER SERVICE INSTALLATION NOTES:

Hays equal.

1. Copper service line shall be 1 1/2" or 2" I.D. C.T.S. poly tube SDR-9.

3. Corporation stop shall be 1 1/2" or 2" Mueller Corporation Stop No. H-15008 or

5. Meter box shall be two feet, six-inches (2'-6") from back of curb or as directed by

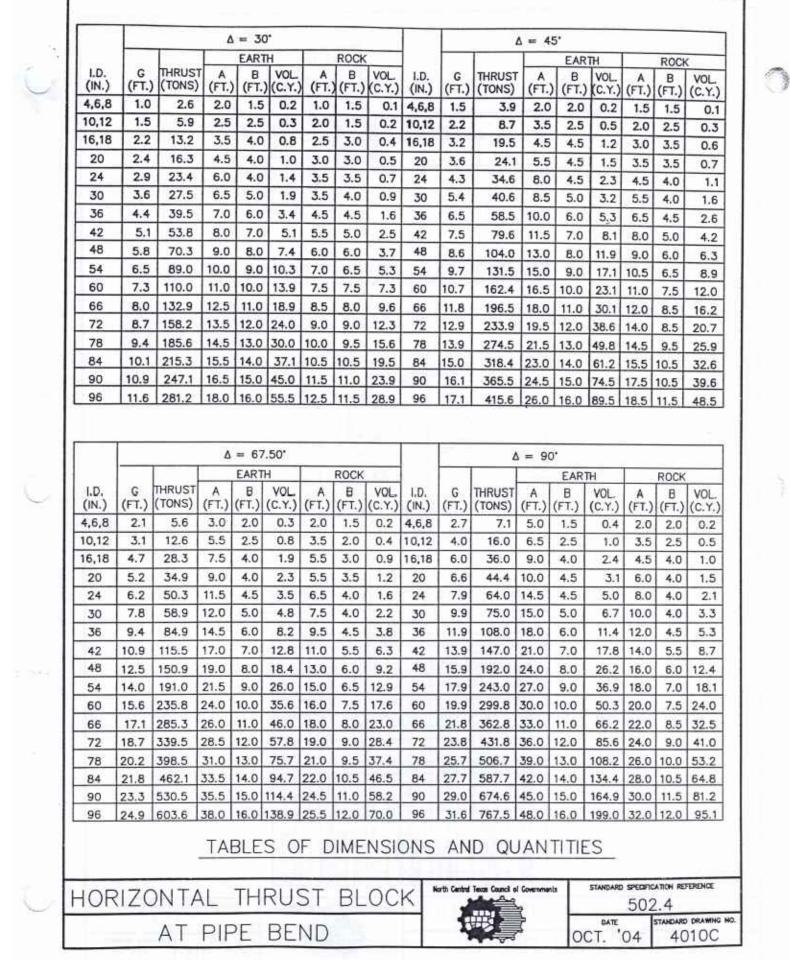
6. Meter box shall be eighteen (18) inch diameter by fourteen (14) inch deep corrugated galvanized slotted meter box with composite lid (see City lid detail).

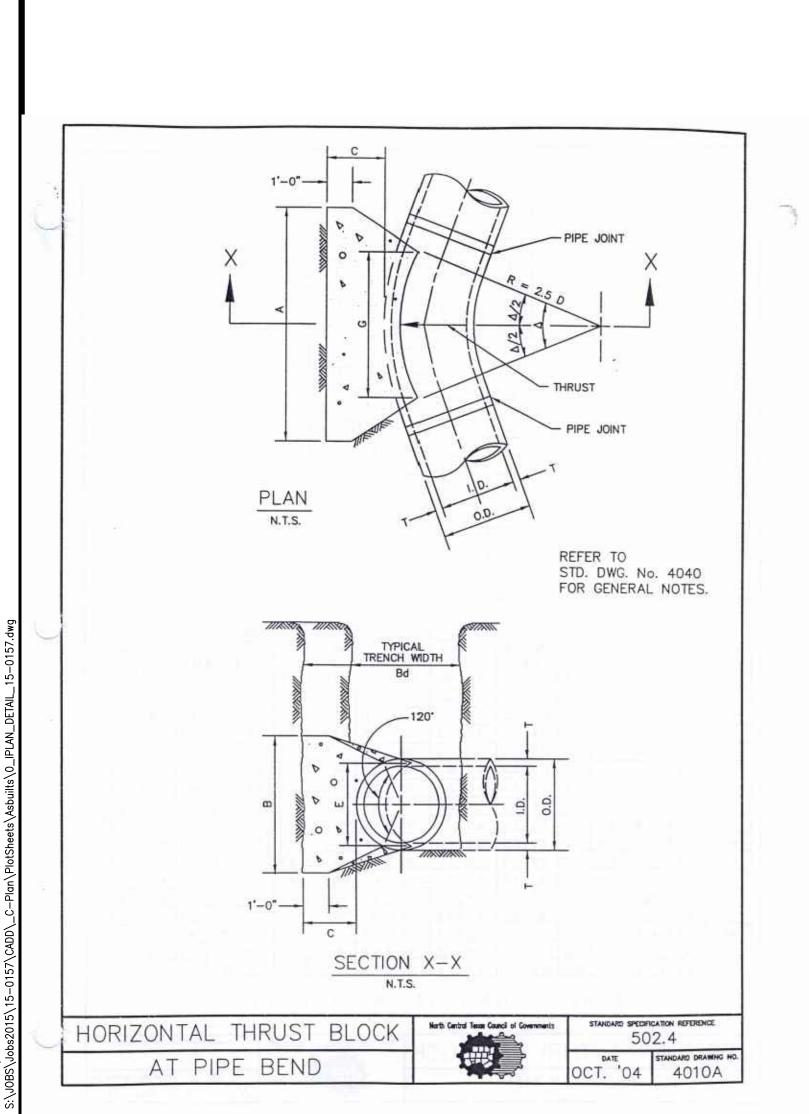
2. Tapping saddle shall be Clow F-6350 or approved equal.

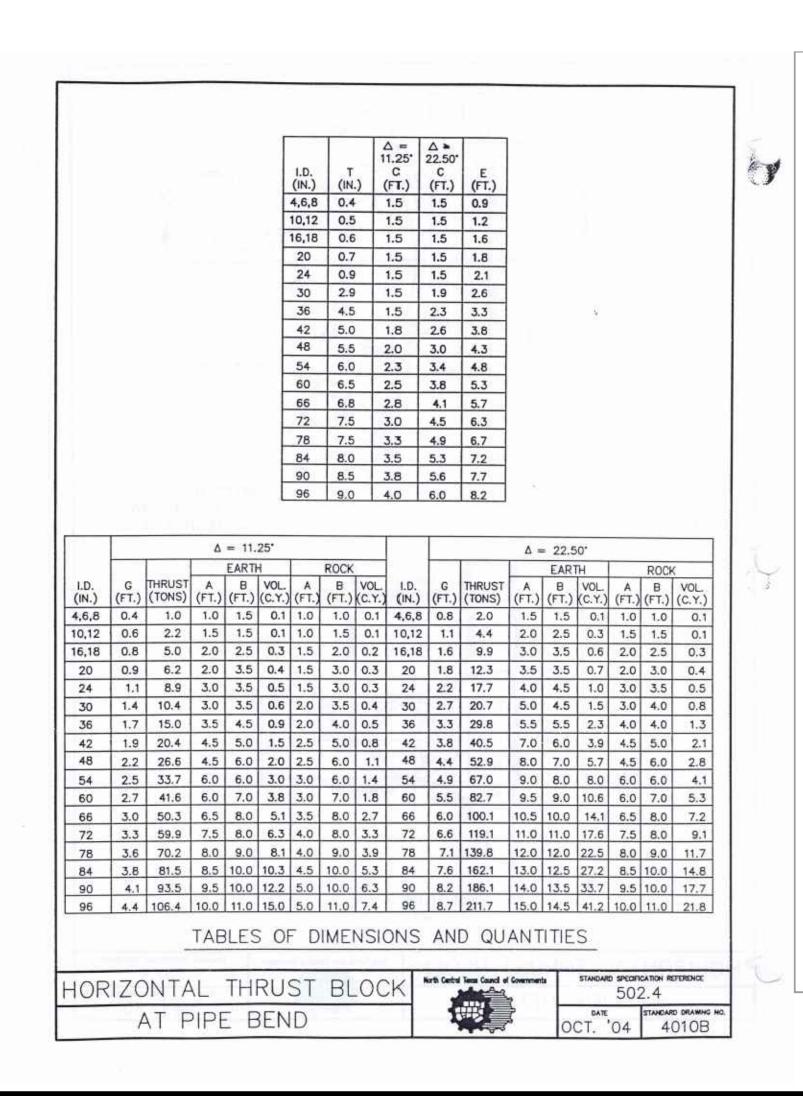
4. Angle stop (compression x 2 bolt meter flange).

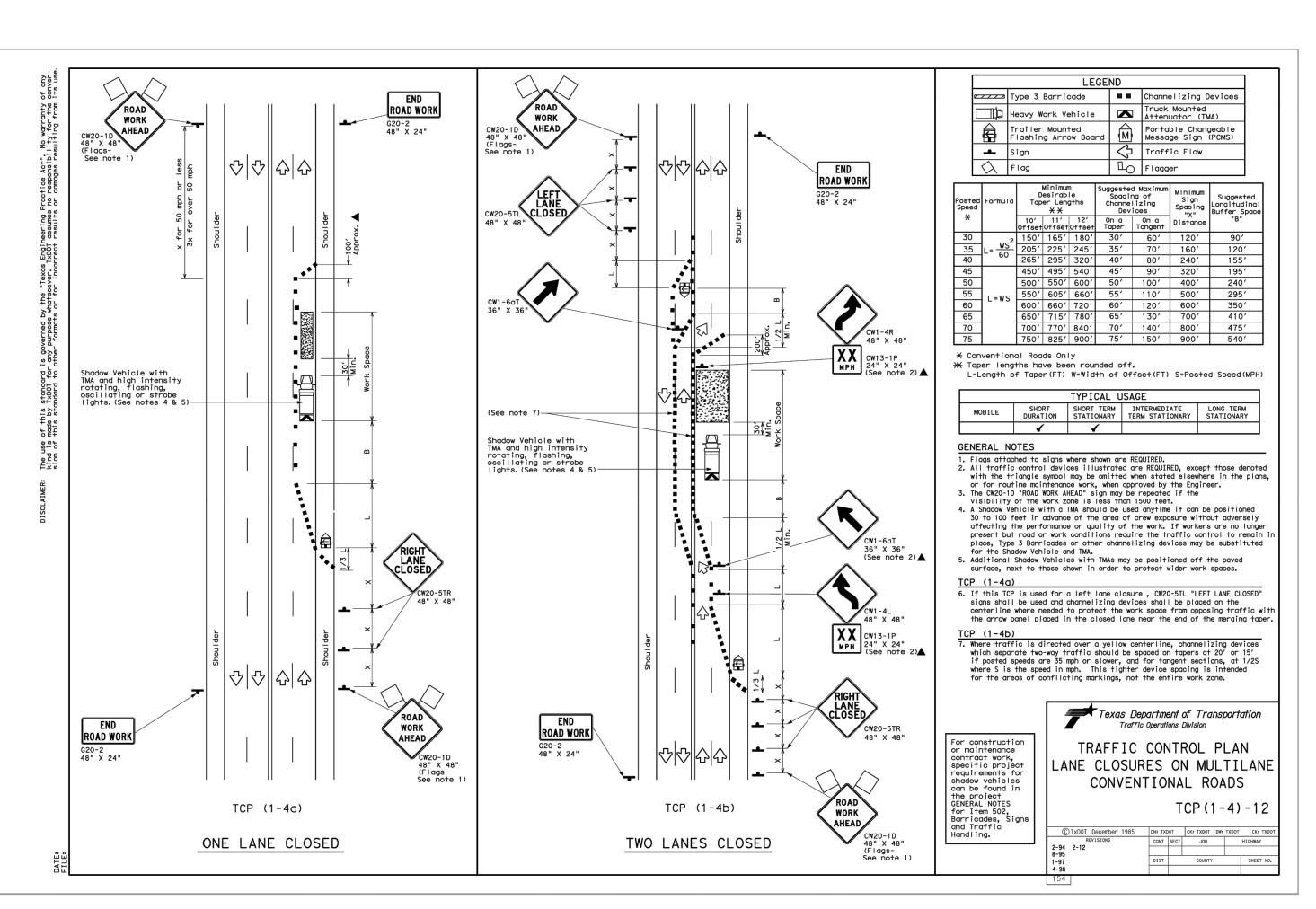
8. See City detail for Service Meter Tail Connection.

7. Blue EMS disk shall be set at main line.



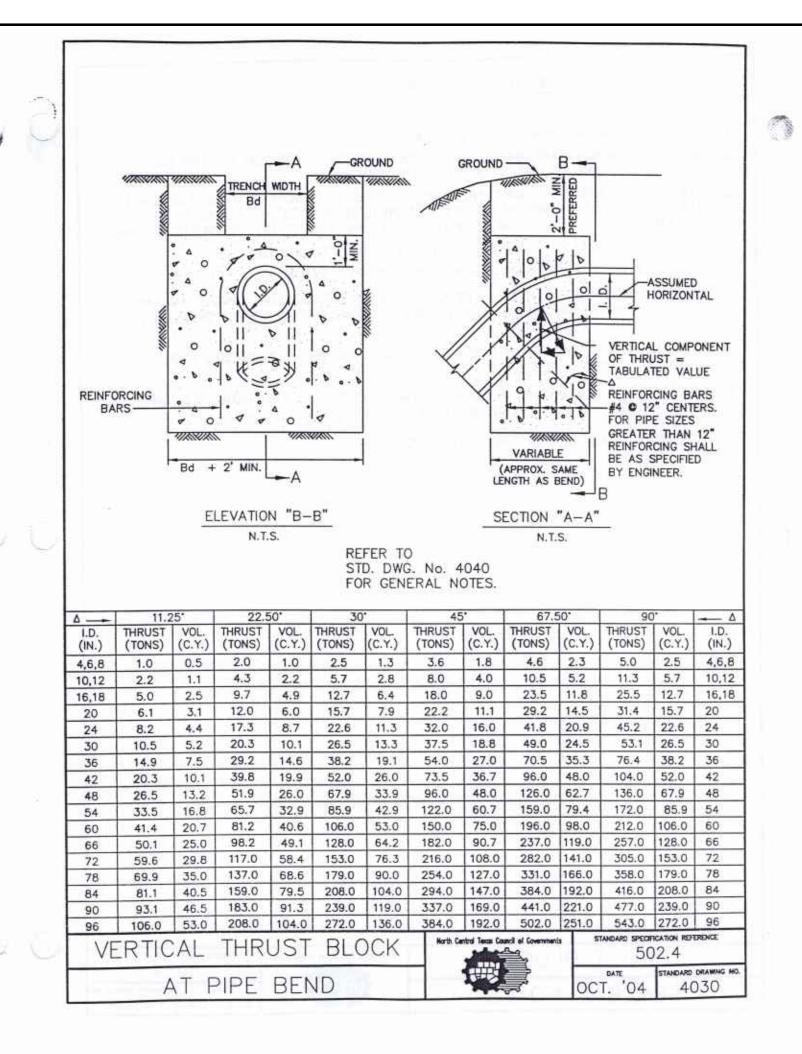


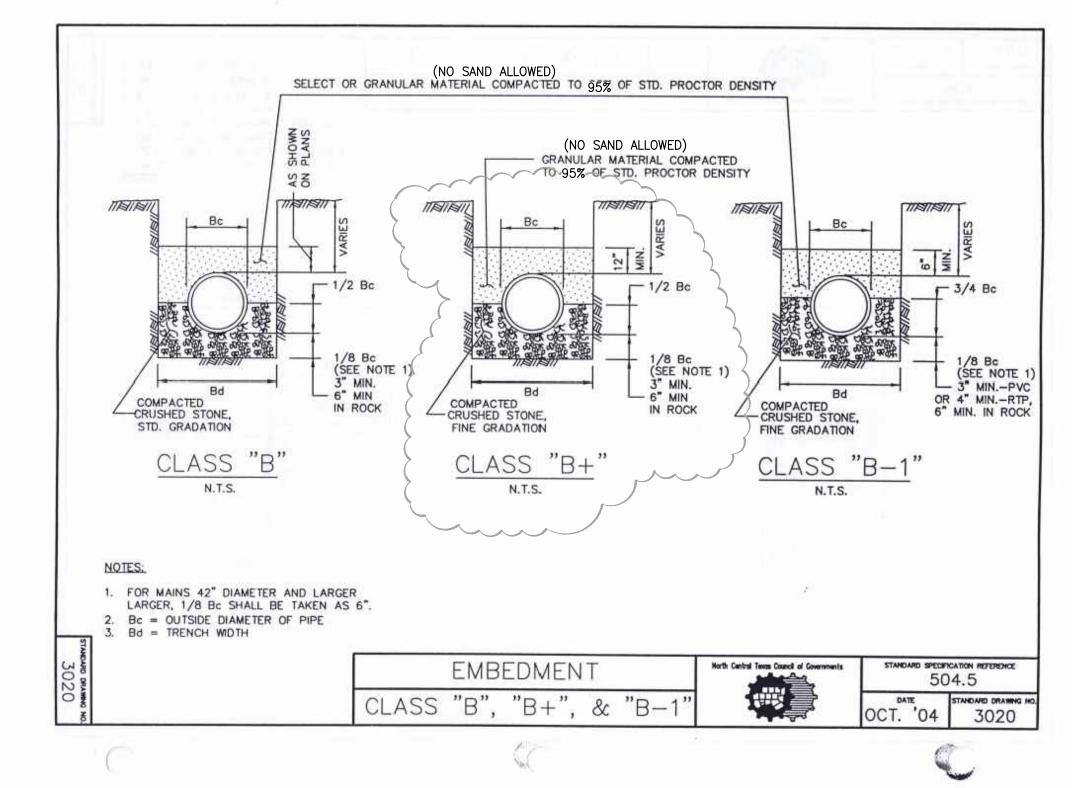




09/07/2017

#1982







Rockwall Fire Department Fire Marshal's Office

These guidelines are to be followed when an underground water supply serving an automatic fire sprinkler system within the City of Rockwall is to be installed or modified. These guidelines are not to be interpreted as containing all data required for proper design, installation, or approval.

All fire sprinkler underground supply lines shall conform to the 2009 International Fire Code, as adopted and amended by the City of Rockwall and 2010 NFPA 24. These guidelines are not intended to replace, nor supersede any codes and/or ordinances adopted by the City of Rockwall, or determinations and positions of the Rockwall Fire Department.

### **General Requirements**

- 1) All underground lines shall begin at the point of connection to the underground circulating public/private water main. A valve shall be provided at the point of connection such that the fire sprinkler underground service line can be isolated from the public/private water distribution
- 2) Underground piping shall have a 10-foot minimum separation from all other utilities and placed in a separate trench. Underground piping within 5-feet of the building may be combined with other utilities for entrance into the building.
- 3) All underground lines shall terminate at the top of the spigot no more than 5-feet inside the building and 1-foot above finished floor.
- 4) All ductile iron, retaining rods, and other non-corrosive resistant components shall be externally
- coated for corrosion or poly wrapped. 5) All underground piping shall be a minimum of Class 200 DRI4 or greater.
- 6) Water supply shall be provided in conformance with the requirements of the respective standards; however, every fire protection system shall be designed with a minimum 5 psi safety factor at 20 psi residual on City mains.
- 7) The water supply test for the hydraulic design of fire protection systems shall be witnessed by the Rockwall Fire Department. The results of the flow test shall be within one year of the sprinkler plan submittal. The exact location of the static/residual hydrant and the flow hydrant shall be indicated on the design drawings. All fire protection plan submittals shall be accompanied by a water flow test report provided by the Rockwall Fire Department at the time of the water supply

### Fire Department Connection (FDC)

- 8) FDC shall be a separate and independent service main from the underground water line
- 9) FDC's for automatic sprinkler systems and/or standpipe systems for new buildings shall be equipped with a 5-inch "Storz" angled down with a "short bend" or 30° downturn. (See Details)
- 10) All FDC's shall be equipped with a locking Knox FDC Cap/s. Knox products may be ordered online at www.knoxbox.com.
- 11) Check valves shall be accessible for 5-year inspection. If located underground, shall be installed within a meter can/valve box.
- 12) FDC shall be facing and visible from the fire lane.
- 13) FDC must be within 100-feet of a fire hydrant.
- 14) FDC installed in a "yard" should have 4-feet x 4-feet x 4-inch concrete pad placed at the base to provide additional stability.
- 15) The FDC shall be clear and unobstructed with a minimum of a 5-feet clear all-weather path from fire lane access.
- 16) The FDC shall be installed 18-48 inches above grade.

Rockwall Fire Department - Fire Marshal's Office



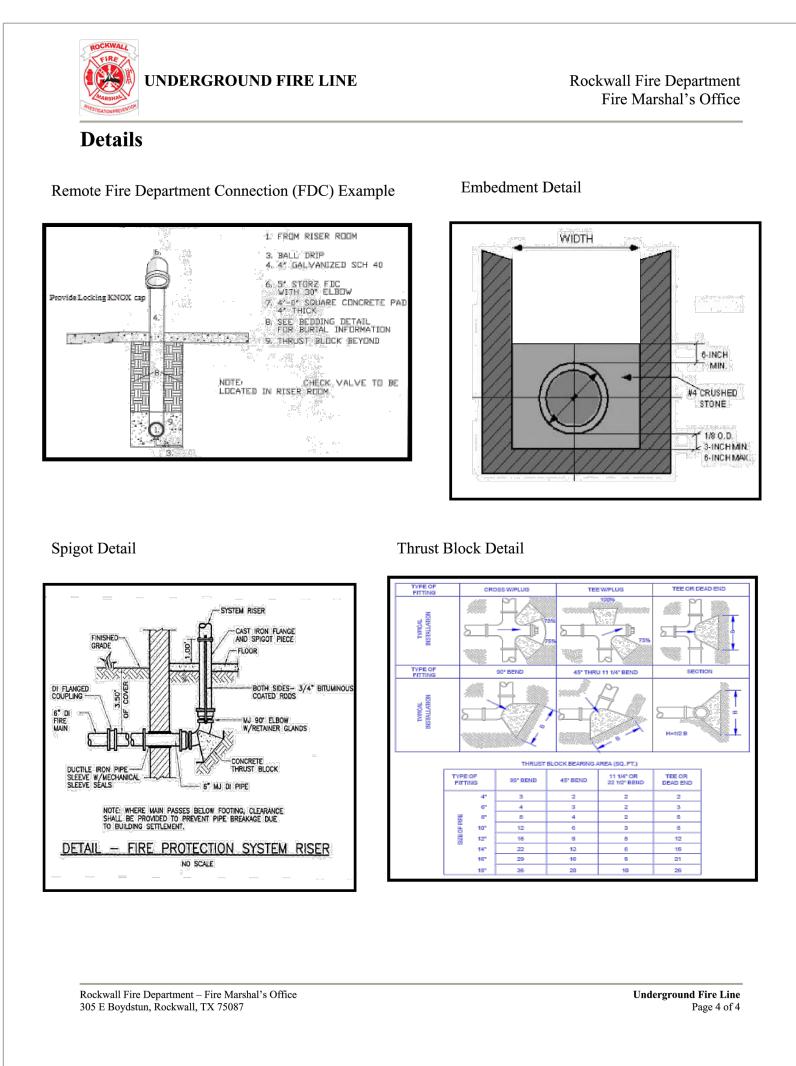
UNDERGROUND FIRE LINE

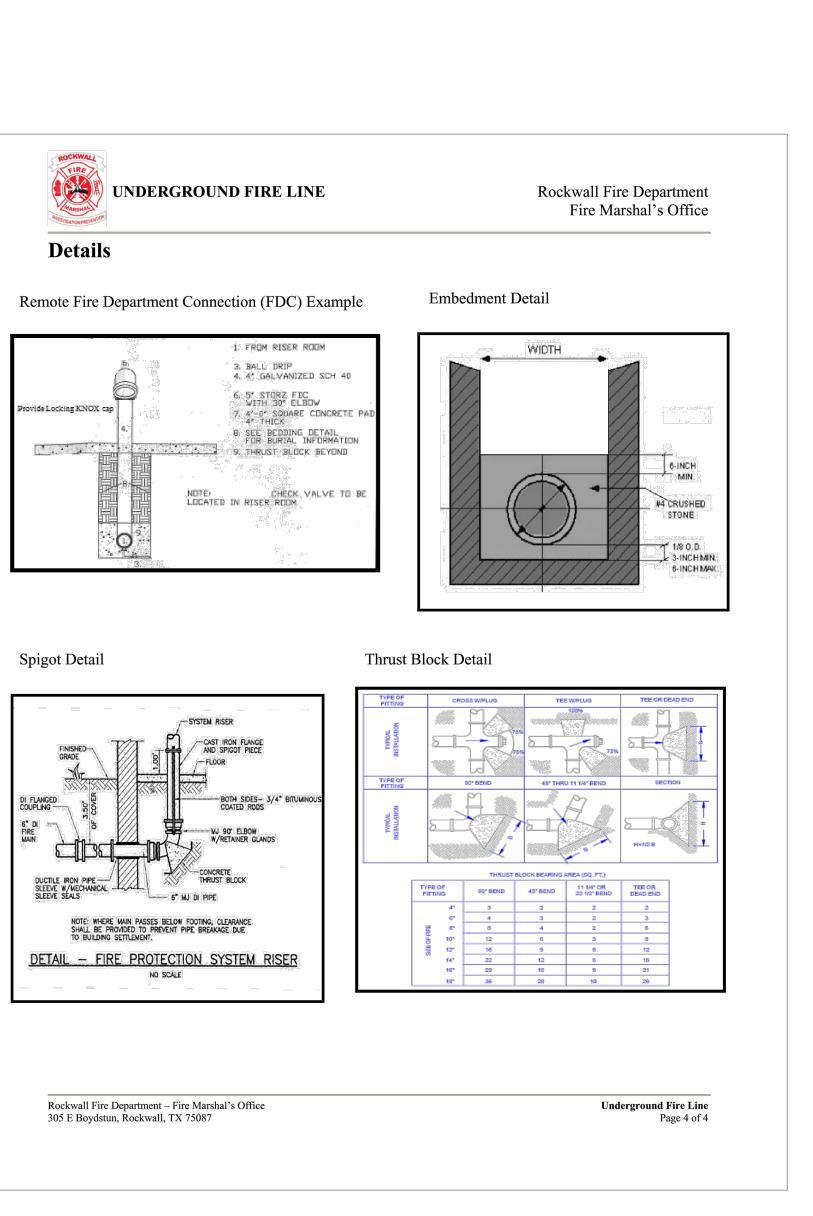
Rockwall Fire Department Fire Marshal's Office

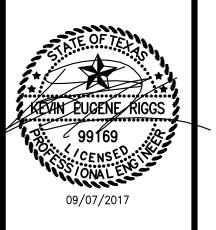
- 17) Fire hose threads shall be national standard hose thread.
- 18) Underground piping shall be designed and constructed as required for an underground fire main using NFPA 24, Standard for the Installation of Private Fire Service Mains and Their Appurtenances, as the installation standard.
- 19) The FDC shall discharge into the system on the discharge side of the pump if a pump is present. 20) Where the FDC is subject to vehicular damage, the connection shall be protected. Protection components shall not be closer than 36-inches to the connection and shall not interfere with the operation of the connection.
- 21) The pipe size and arrangement of the FDC should conform to the latest edition of NFPA 13, Standard for the Installation of Sprinkler Systems.

### **Inspection Requirements**

- 22) Visual: All underground piping, joints, and thrust blocks must be uncovered and exposed, with labeling of the pipe legible from grade. All ductile iron, retaining rods, and other nonplastic components shall be externally coated for corrosion and poly wrapped.
- 23) Hydrostatic Test: Visual inspection must be approved prior to hydrostatic test. The test will be at 200 psi or at 50-psi pressure in excess of the maximum static pressure when the maximum static pressure exceeds 150 psi, for a minimum of two hours. Testing to be from the gate valve to the top of the spigot, no pressure drop or gain allowed.
- 24) Flush: Upon completion of the underground hydrostatic test, the underground piping will be flushed, witnessed by the Fire Department. All piping used to flush must be properly secured or restrained. The flushing must be completed prior to stacking the riser to the overhead piping.
- 25) Fire Sprinkler Underground Final: Final Fire Department sign-off of completion of all inspections and the receipt of all State require paperwork.









DRAWN BY CAW CHECKED BY RAWING SCALE AS SHOWN 06/01/2016

Job Number 15-0157