

CONSTRUCTION PLANS FOR 16" WATER MAIN REPLACEMENT CIP 2016-018 CITY OF ROCKWALL, TEXAS

CITY OF ROCKWALL

MAYOR:

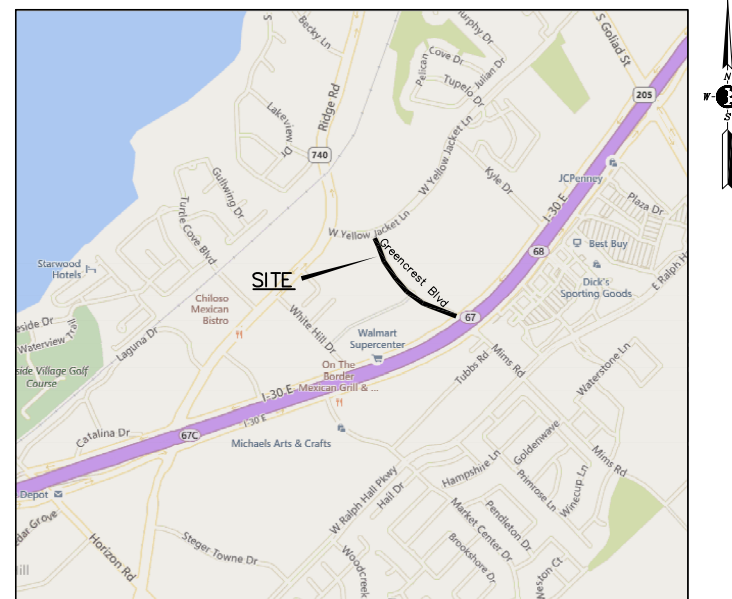
Jim Pruitt

CITY COUNCIL:

David White
John Hohenshelt
Kevin Fowler
Dennis Lewis, Mayor Pro Tem
Scott Milder
Mike Townsend

CITY MANAGER:

Rick Crowley



LOCATION MAP

INDEX of SHEETS

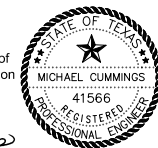
| Sheet No. | Title |
|-----------|----------------------------|
| 1 | Cover Sheet |
| 2 | General Notes |
| 3-6 | Water Main Plan & Profiles |

"RECORD DRAWINGS"

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NOTE:
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The seal appearing on this document was authorized on April 6, 2016 by Michael Cummings, P.E. Tx. No. 41566. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act.



CITY OF ROCKWALL
385 SOUTH GOLIAD STREET, ROCKWALL TEXAS 75087



1801 Gateway Blvd.
Suite 101
Richardson, Texas 75080
Texas Registration Number F-3185

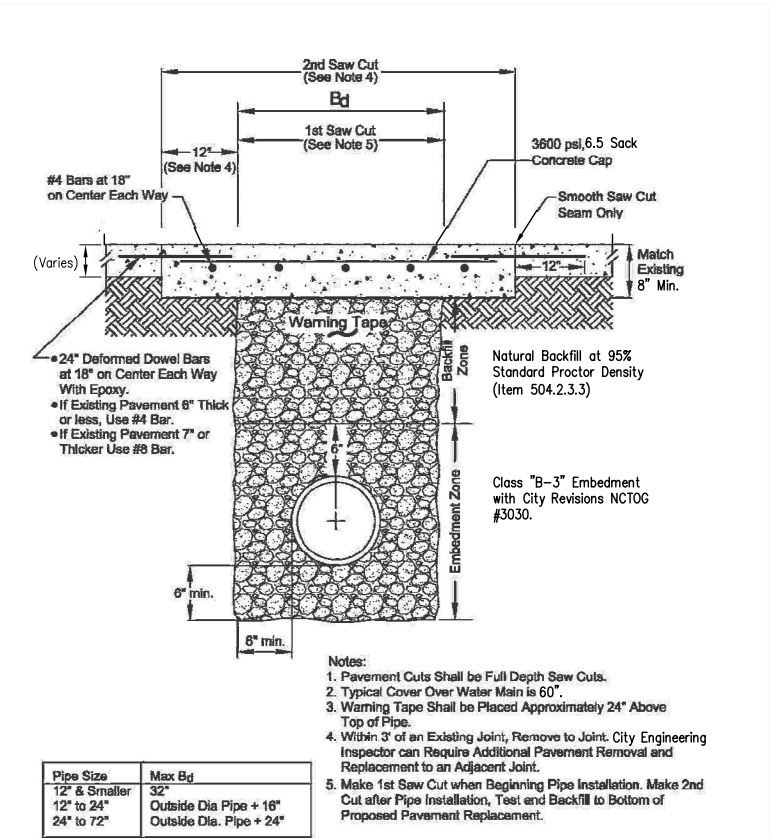
972.644.2800
Fax 972.644.2817
www.bbcp.com

April 2016

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROCKWALL STANDARDS, SPECIFICATIONS & STANDARD DETAILS AND N.C.T.C.O.G. STANDARD SPECIFICATIONS 3rd EDITION.
- BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A CONSTRUCTION SEQUENCE SCHEDULE. THE CONSTRUCTION SCHEDULE IS TO BE SUBMITTED TO THE CITY FOR APPROVAL.
- UTILITIES SHOWN ON THE PLANS WERE TAKEN FROM FIELD SURVEYS AND INFORMATION PROVIDED BY THE UTILITY COMPANIES. THE COMPLETENESS AND THE ACCURACY OF THIS DATA IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES AND PROTECTING THEM FROM DAMAGE DURING CONSTRUCTION.
- WORK MAY NOT BE BACKFILLED OR COVERED UNTIL IT HAS BEEN INSPECTED BY THE CITY.
- MATERIAL TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY SELECTED AND PAID FOR BY THE CITY.
- ALL EXCAVATION ON THE PROJECT IS UNCLASSIFIED.
- ALL SAW CUTS OF EXISTING PAVEMENT ARE TO BE "FULL DEPTH".
- ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING RIGHT OF WAY, WILL BE SODDED WITH GRASS THAT MATCHES EXISTING LAWN & RIGHT-OF-WAYS. SODDING AND FERTILIZING SHALL BE DONE IN ACCORDANCE WITH THE N.C.T.C.O.G. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 3rd EDITION (ITEMS 2.15.1, 2.15.2, 3.9, 3.10). THE CONTRACTOR SHALL MAINTAIN SODDED AREAS FOR A TWO (2) MONTH PERIOD FOLLOWING PLANTING OR UNTIL THE GRASS HAS ESTABLISHED A MINIMUM HEIGHT OF TWO INCHES.
- THE CONTRACTOR SHALL REMOVE & REINSTALL IN ORIGINAL LOCATION ALL EXISTING TRAFFIC CONTROL SIGNS AFFECTED BY THE CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE THE CITY ENGINEER WITH A TRAFFIC CONTROL PLAN, AT LEAST 48 HOURS BEFORE ANY WORK IN A CITY STREET. TRAFFIC CONTROL MEASURES SHALL CONFORM TO PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE CITY OF ROCKWALL "WORK ZONE TRAFFIC CONTROL MANUAL". TRAFFIC CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR FOR ANY WORK ACTIVITY THAT TAKES PLACE ON OR ADJACENT TO ANY CITY STREET OR ROADWAY. THE TRAFFIC CONTROL PLAN SHALL BE DESIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF TEXAS.
- MEGA-LUGS OR APPROVED EQUAL SHALL BE INSTALLED AT ALL FITTINGS.
- ACCESSIBLE PEDESTRIAN ROUTES ON PUBLIC RIGHTS-OF-WAY AND PRIVATE PROPERTY SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND TEXAS ACCESSIBILITY STANDARDS (TAS). DESIGN AND CONSTRUCTION OF ALL CURB RAMPS ON PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARD DETAIL PED-12A, SHEETS 1 THROUGH 4. DESIGN AND CONSTRUCTION OF ALL SIDEWALKS SHALL BE IN ACCORDANCE WITH CITY OF ROCKWALL STANDARD DETAILS WITH PASSING AREAS HAVING A MINIMUM 5-FOOT BY 5-FOOT SIZE AT INTERVALS NOT EXCEEDING 200 FEET. CURB RAMPS THAT ARE PART OF ACCESSIBLE ROUTES ON PRIVATE PROPERTY MAY BE CONSTRUCTED IN ACCORDANCE WITH TxDOT STANDARD DETAIL PED-12A, SHEETS 1 THROUGH 4, OR MAY BE CONSTRUCTED IN ACCORDANCE WITH A DESIGN SUBMITTED AND APPROVED BY THE TEXAS DEPARTMENT OF LICENSING AND REGULATION.
- FRANCHISE UTILITY CONTACTS: CALL 1-800-344-8377 FOR LINE LOCATES (48 HR. ADVANCE) EMERGENCY CONTACT NUMBERS
 "ONCOR" - 888-313-4747
 "ATMOS (GAS)" - 800-442-7259
 "AT&T" - 800-286-8313
 "CHARTER" - 800-314-7195
 "CITY OF ROCKWALL" SERVICE CENTER- 972-771-7730
- MAILBOXES SHALL BE PROTECTED BY CONTRACTOR THROUGHOUT CONSTRUCTION. WHERE NECESSARY TO TEMPORARILY RELOCATE MAILBOX, IT SHALL BE DONE WITHOUT DAMAGING MAILBOX. MAILBOX SHALL BE RE-INSTALLED IN ORIGINAL LOCATION UPON COMPLETION OF CONSTRUCTION.
- ACTUAL SAWCUT LIMITS WILL VARY AND WILL BE FIELD MEASURED FOR PAYMENT PURPOSES.
- THE EXISTING TOPOGRAPHIC FEATURES ON THE PLAN SHEETS ARE COMPILED FROM PARTIAL FIELD SURVEYS, CITY GIS MAPS AND VISUAL OBSERVATION. THERE ARE EXISTING FEATURES WHICH ARE NOT SHOWN ON THESE PLANS. IT IS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ALL IMPROVEMENTS AND NOTIFY THE ENGINEER IF CONFLICTS EXIST.
- THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A PRECONSTRUCTION VIDEO OF THE PROJECT LIMITS CLEARLY SHOWING THE LOCATION AND CONDITION OF ALL IMPROVEMENTS WITHIN AND ADJACENT TO THE PROJECT AREA. FAILURE TO DOCUMENT THE CONDITION OF EXISTING IMPROVEMENTS MAY RESULT IN THE CONTRACTOR BEING REQUIRED TO REPAIR OR REPLACE DAMAGED PROPERTY OR FACILITIES.
- THE CONTRACTOR SHALL OBTAIN A HYDRANT METER AND BACKFLOW DEVICE FROM THE CITY FOR CONSTRUCTION WATER (OR SUPPLY THEIR OWN). THE CITY WILL NOT CHARGE FOR WATER.

- REFER TO SPECIFICATIONS FOR LIST OF REQUIRED SUBMITTALS.
- TRIMMING OF TREES SHALL BE ACCOMPLISHED USING A SAW OR PRUNING SHEARS. ALL CUT LIMBS OVER 1" DIAMETER SHALL BE PAINTED WITH TREE WOUND PAINT IMMEDIATELY AFTER TRIMMING.
- CONTRACTOR SHALL REPLACE ANY TREES REMOVED OR DESTROYED WITHOUT OWNER'S PERMISSION OR SHALL PAY A FAIR MARKET VALUE (AS DETERMINED BY OWNER) TO THE OWNER.
- ANY FENCES DAMAGED OR REMOVED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE SAME LOCATION WITH A FENCE OF EQUAL OR SUPERIOR QUALITY.
- PROVIDE ACCESS FOR LANDOWNERS AT EXISTING ROADS AND DRIVES AT ALL TIMES.
- 16" WATER PIPE SHALL BE AWWA C905, DR 18 (BLUE IN COLOR). 8" AND 6" WATER PIPE SHALL BE AWWA C900, DR 14, CLASS 200 (BLUE IN COLOR).
- CONTRACTOR SHALL SECURE EXCAVATION AT THE END OF EACH DAY. NO TRENCHES SHALL BE LEFT OPEN OVERNIGHT IN STREETS.
- CONTRACTOR SHALL PROTECT ALL UNDERGROUND IRRIGATION SYSTEMS (KNOWN AND UNKNOWN). ALL DAMAGE SHALL BE REPAIRED BY IRRIGATOR LICENSED IN TEXAS.
- BLUE EMS DISKS TO BE INSTALLED ON THE WATERLINE AT 250' INTERVALS AND EVERY CHANGE IN DIRECTION, VALVE, FIRE HYDRANT, AND SERVICE.
- ALL COMPACTION SHALL BE A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- EXISTING FIRE HYDRANTS REMOVED SHALL BE SALVAGED AND RETURNED TO THE CITY SERVICE CENTER.
- ALL CONCRETE SHALL BE MIN. 3,600 PSI (MIN 6.5 SACK MIX) FOR STREET & DRIVEWAY REPAIR. SIDEWALK REPLACEMENT CONCRETE TO BE MIN. 3,000 PSI (MIN 5.5 SACK MIX). NO SAND UNDER PAVING WILL BE ALLOWED.
- ABANDONMENT OF EXISTING WATER VALVES SHALL INCLUDE REMOVAL OF EXISTING VALVE COVER, REMOVAL OF EXISTING VALVE STACK, AND BACKFILLING WITH 2000 PSI CONCRETE, CRUSHED CONCRETE FLEX BASE OR APPROVED EQUAL.
- CONTRACTOR SHALL PULL PROPOSED PIPE AS REQUIRED FOR CURVES. CONTRACTOR SHALL PULL PROPOSED PIPE AS REQUIRED TO AVOID POWER POLES, MAILBOXES, LANDSCAPING, SIDEWALKS AND RESIDENTIAL CLEAN OUTS.
- CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING STORM SEWER AND EXISTING SANITARY SEWER AT PROPOSED WATERLINE CROSSINGS. CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE PROPOSED WATERLINE AS REQUIRED PER TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING EXISTING POWER POLES AS REQUIRED. CONTRACTOR SHALL CONTACT ONCOR, AT&T, AND ALL FRANCHISE UTILITIES.
- EXISTING CORRUGATED METAL PIPE (CMP) UNDER DRIVEWAYS AND IN CONFLICT WITH THE PROPOSED WATERLINE SHALL BE REMOVED AND REPLACED WITH REINFORCED CONCRETE PIPE (RCP). MINIMUM REPLACEMENT SIZE FOR DRIVEWAY RCP SHALL BE 18". CONTRACTOR SHALL GRADE DITCH TO DRAIN WHERE NECESSARY TO ENSURE NEW DRIVEWAY CULVERTS DRAIN.
- SAWCUTS WITHIN 3' OF EXISTING PAVEMENT JOINTS MAY REQUIRE ADDITIONAL PAVEMENT REMOVAL AND REPLACEMENT UP TO THE ADJACENT JOINT. CONTRACTOR SHALL CONFIRM REMOVAL LIMITS WITH THE CITY OF ROCKWALL INSPECTOR PRIOR TO CONSTRUCTION.
- COST FOR FITTINGS AND BLOCKING SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE OF PROPOSED WATER MAIN.
- ESTABLISHMENT OF HORIZONTAL CONTROL, INCLUDING SETTING CONTROL STAKES TO ESTABLISH A BASELINE, WILL NOT BE REQUIRED FOR THIS PROJECT.

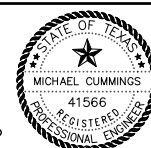


TYPICAL PAVEMENT CUT DETAIL
NTS

CAUTION EXISTING UTILITIES !!!

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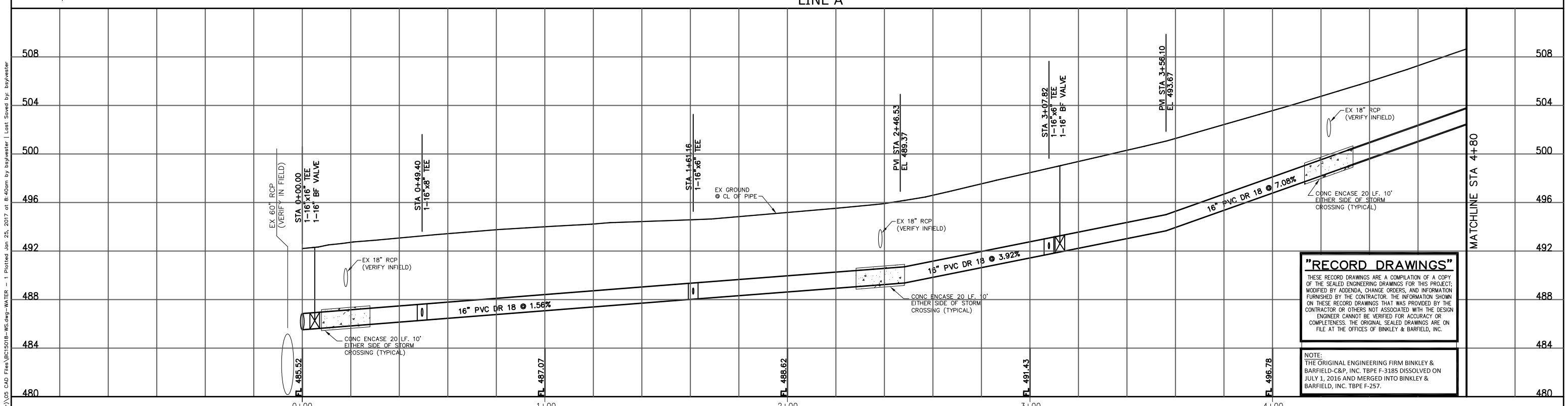
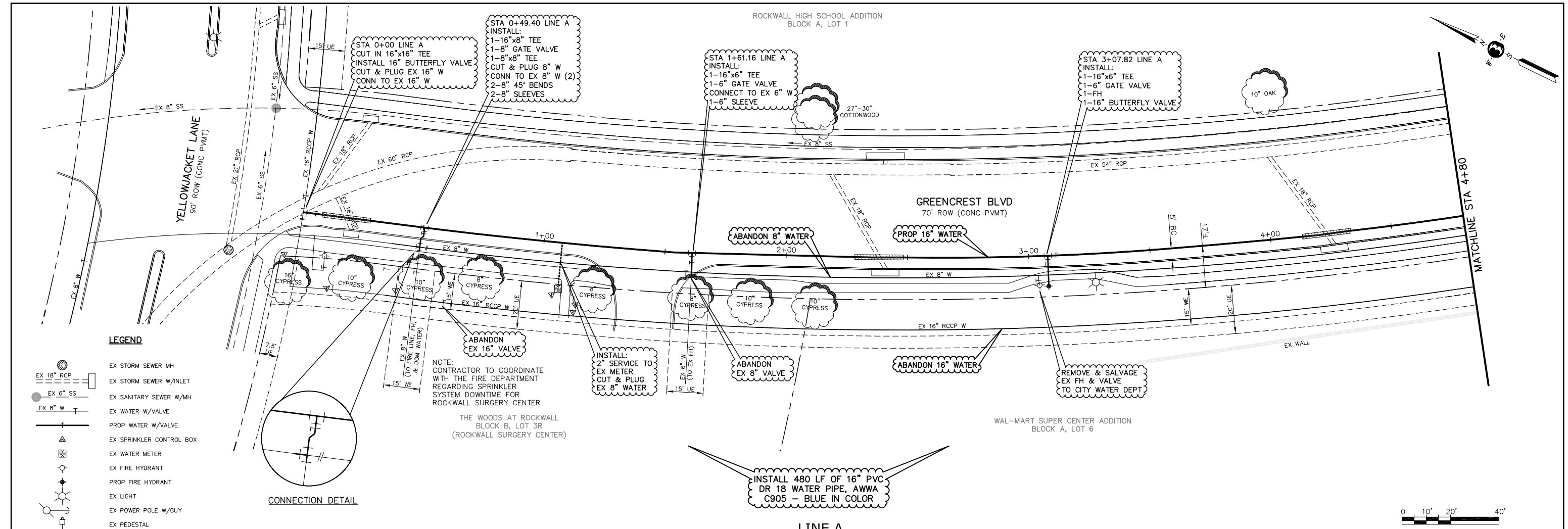
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consulting engineers

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 972.644.2800 Fax 972.644.2817
 www.bbcpi.com
 Texas Registration Number F-3185

CITY OF ROCKWALL
16" WATER MAIN

GENERAL NOTES

| | | |
|--------|--------------|----------|
| Scale: | Date: | Job No.: |
| NA | Jan 25, 2017 | BC15018 |



| Rev | Description | Date |
|-----|-------------|------|
| | | |

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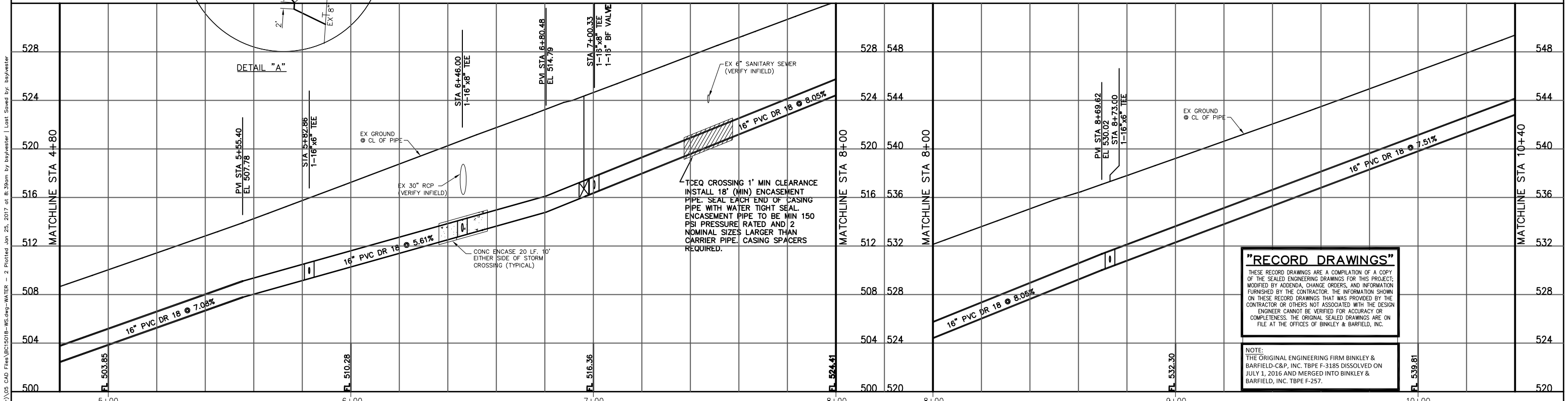
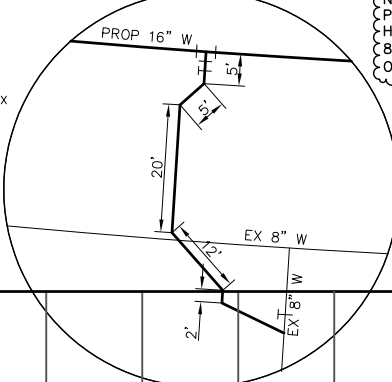
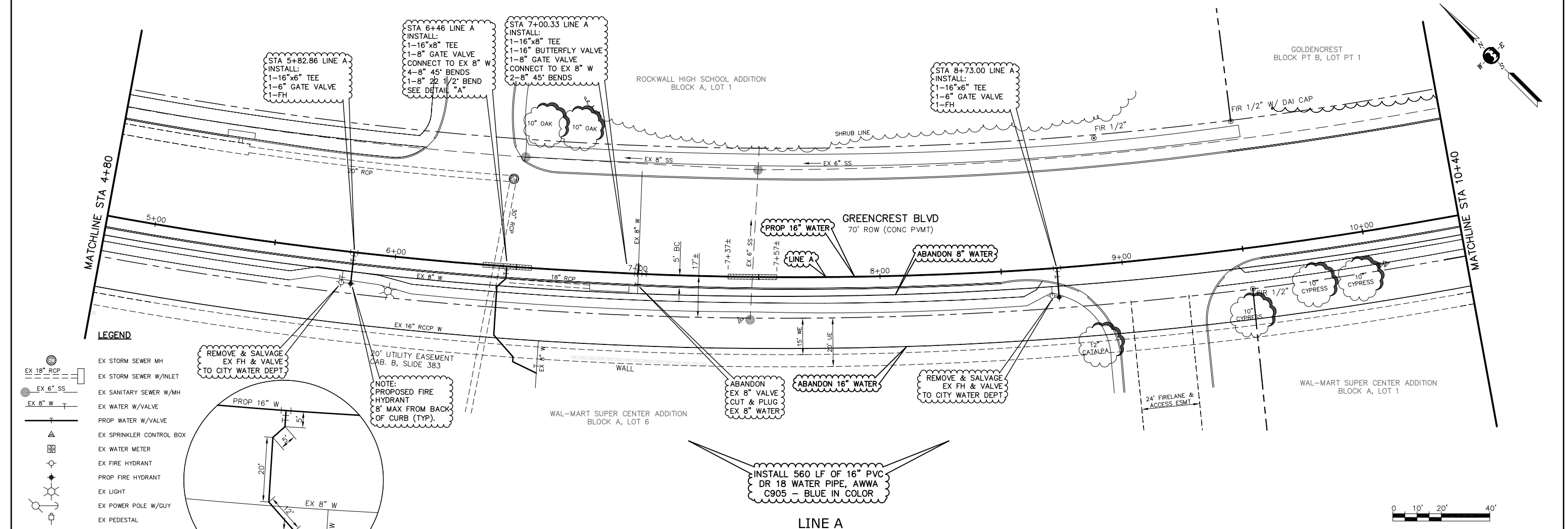
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CITY OF ROCKWALL
16" WATER MAIN
LINE A
PLAN & PROFILE
STA: 0+00 TO STA: 4+80

Scale: 1"=20' H, 1"=4' V
Date: Jan 25, 2017
Job No.: BC15018
03

N:\BC15018 (Rockwall 16 Water)\05 CAD Files\BC15018-WS.dwg - WATER - 1 Plotted Jan 25, 2017 at 8:40am by bsp/wester | Last Saved by bsp/wester



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CITY OF ROCKWALL
16" WATER MAIN
LINE A
PLAN & PROFILE
STA 4+80 TO STA 10+40

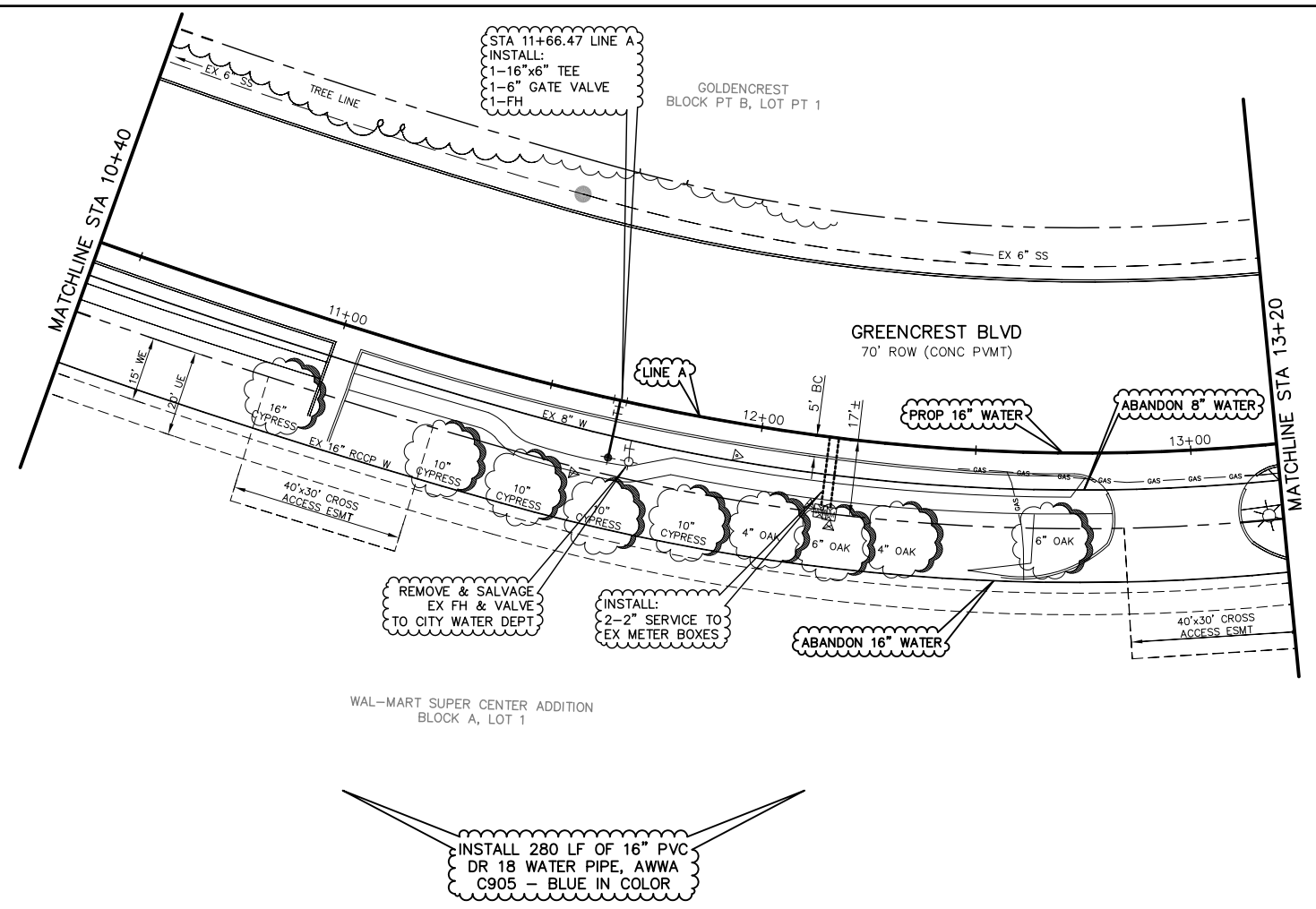
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










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Job No.: BC15018

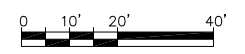
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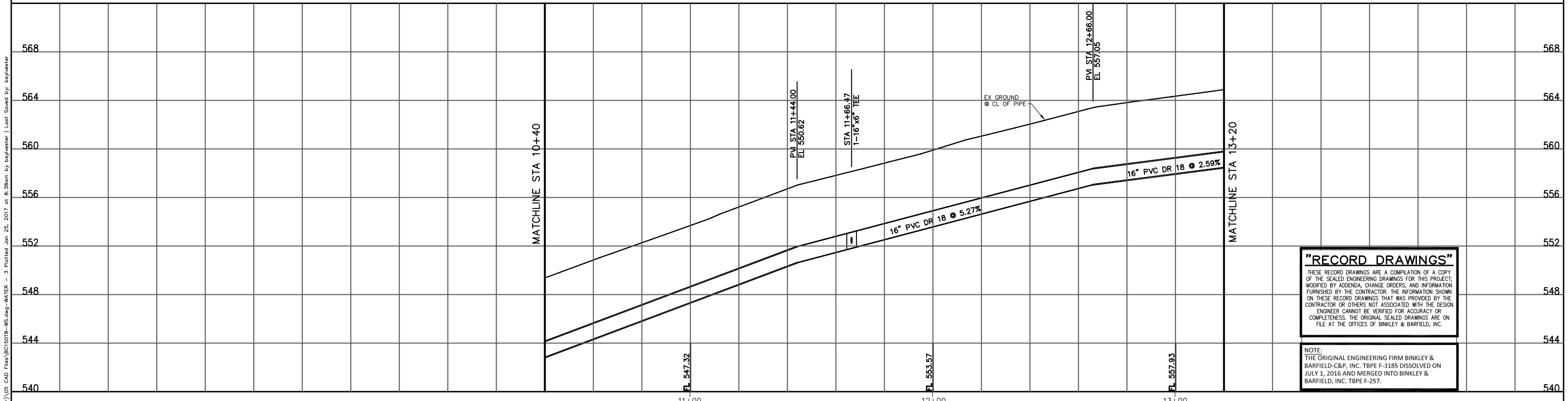


-  EX STORM SEWER MH
-  EX STORM SEWER W/INLET
-  EX SANITARY SEWER W/MH
-  EX WATER W/VALVE
-  PROP WATER W/VALVE
-  EX SPRINKLER CONTROL BOX
-  EX WATER METER
-  EX FIRE HYDRANT
-  PROP FIRE HYDRANT
-  EX LIGHT
-  EX POWER POLE W/GUY
-  EX PEDESTAL

INSTALL 280 LF OF 16" PVC DR 18 WATER PIPE, AWWA C905 - BLUE IN COLOR



LINE A



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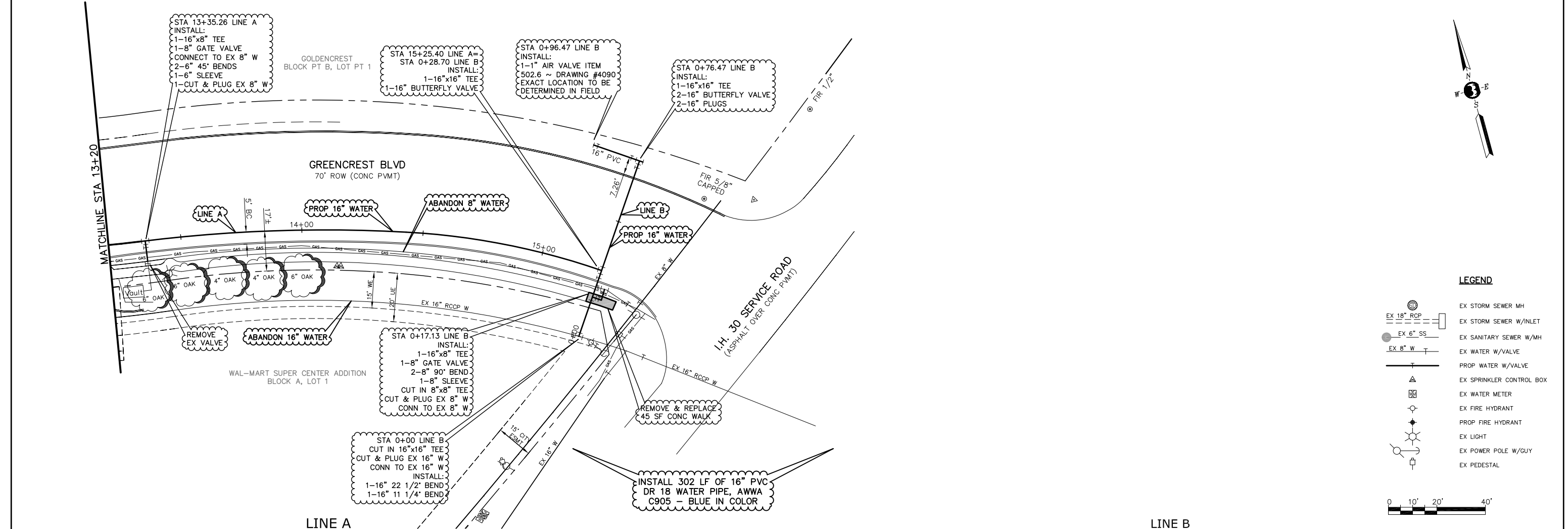
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CITY OF ROCKWALL
 16" WATER MAIN
 LINE A
 PLAN & PROFILE
 STA 10+40 TO STA 13+20

Scale: 1"=20' H, 1"=4' V
 Date: Jan 25, 2017
 Job No.: BC15018
05

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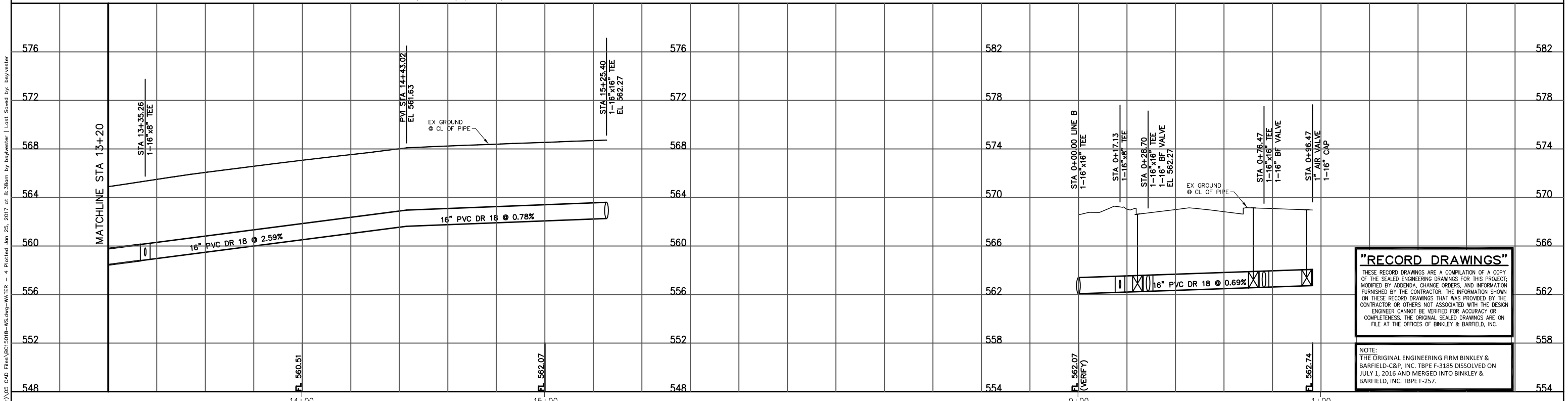
| Rev | Description | Date |
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| | | |



LEGEND

- EX STORM SEWER MH
- EX 18" RCP
- EX STORM SEWER W/INLET
- EX 6" SS
- EX SANITARY SEWER W/MH
- EX 8" W
- EX WATER W/VALVE
- PROP WATER W/VALVE
- EX SPRINKLER CONTROL BOX
- EX WATER METER
- EX FIRE HYDRANT
- PROP FIRE HYDRANT
- EX LIGHT
- EX POWER POLE W/GUY
- EX PEDESTAL

0 10' 20' 40'



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CITY OF ROCKWALL
16" WATER MAIN
LINE A & LINE B
PLAN & PROFILE
LINE A STA: 13+20 TO END, LINE B STA 0+00 TO END

Scale: 1"=20' H
1"=4' V

Date: Jan 25, 2017

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06

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