ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD
LIFT STATION 16 FORCE MAIN

TRANE®

CONSTRUCTION SET

SUMMER 2015 VOLUME 2 OF 2

PROJECT DATA

PROJECT DESCRIPTION:
THE CITY OF LYNNWOOD LIFT STATION 16 FORCE MAIN CONSISTS OF THE CONSTRUCTION OF APPROXIMATELY 6667 LINEAR FEET OF 18-INCH OD HDPE PIPE, INCLUDING A CROSSING OF HIGHWAY 99, CONNECTION TO AN EXISTING OUTFALL, ROAD RESTORATION AND TRAFFIC CONTROL.

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CONTACT INFORMATION

CONTACT	COMPANY	PHONE
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EDWIN HALIM, P.E.	RH2 ENGINEERING	(425) 951-5332
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DAVID MATULICH	PUGET SOUND ENERGY	(425) 424-6442
JAMES SUTULL, P.E.	TRANE	(425) 586-1679

OVERVIEW MAP

CALL 48 HOURS BEFORE YOU DIG
ONE CALL 1-800-424-5555

REPORT ALL SPILLS
DEPT. OF ECOLOGY 1-800-258-5990

EXISTING LEGEND

PROPERTY LINE	CONTROL POINT
EASEMENT	POTHOLE
PROPERTY SETBACK	CATCH BASIN
SANITARY SEWER	POWER
WATER	JUNCTION BOX
STORM	WATER METER
OVERHEAD POWER	WATER VALVE
BURIED POWER	GAS METER
TELEPHONE	GAS VALVE
GAS	CONIFEROUS TREE
BUILDING	DECIDUOUS TREE
ASPHALT	MAJOR CONTOUR
EDGE OF CONCRETE	MINOR CONTOUR
GRAVEL	
FENCE (AS NOTED)	
CONCRETE CURB	

PROPOSED LEGEND

- GRAVITY SEWER MAIN
- FORCEMAIN
- ENCASED FORCEMAIN
- ROAD RESTORATION
- DRAFT CONSTRUCTION DESIGN PROFILE
- CONSTRUCTION PROFILE
- ENCASED DESIGN PROFILE

MAYOR
NICOLA SMITH

CITY COUNCIL
LOREN SIMMONDS
SID ROBERTS
VAN AUBUCHON
M. CHRISTOPHER BOYER
IAN COTTON
BENJAMIN GOODWIN
RUTH ROSS

PUBLIC WORKS DIRECTOR
WILLIAM A. FRANZ

RICHARD L. BALLARD — STATE OF WASHINGTON — 32878 — REGISTERED PROFESSIONAL ENGINEER — SIGNED: 09/14/15

EDWIN HALIM — STATE OF WASHINGTON — 36889 — REGISTERED PROFESSIONAL ENGINEER — SIGNED: 09/14/15

RYAN J. FESKENS — STATE OF WASHINGTON — 49451 — REGISTERED PROFESSIONAL ENGINEER — SIGNED: 09/14/15

TONY V. PARDI — STATE OF WASHINGTON — 26978 — REGISTERED PROFESSIONAL ENGINEER — SIGNED: 09/14/15

PLANS ARE PREPARED IN ACCORDANCE TO RCW 39.35a-c DESIGN BUILD PROCEDURE. ADDITIONAL DETAILS MAY BE DEVELOPED DURING CONSTRUCTION AND WILL BE INCLUDED IN THE FINAL CONSTRUCTION RECORDS.

RH2 ENGINEERS PLANNERS SCIENTISTS

LYNNWOOD WASHINGTON

PLOT DATE: 9/14/2015

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE ACCORDING TO THE 2012 EDITION OF "STANDARD SPECIFICATIONS FOR MUNICIPAL PUBLIC WORKS CONSTRUCTION" PREPARED BY WASHINGTON STATE CHAPTER, AMERICAN PUBLIC WORKS ASSOCIATION (APWA), THE 2014 EDITION OF "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" PREPARED BY WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT), CITY OF LYNNWOOD STANDARD PLANS AND PLAN NOTES, SPECIFICATIONS AND ANY CONDITIONS OF APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL ENGINEER OF RECORD TO CORRECT ANY ERROR, OMISSIONS, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO THE CITY OF LYNNWOOD.
2. ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY TRANE AND/OR DESIGNATED TRANE REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY TRANE OF THEIR SCHEDULE IN SUFFICIENT TIME TO PERMIT INSPECTION PRIOR TO AND DURING WORK. 24 HOURS NOTIFICATION IS REQUIRED FOR ALL INSPECTIONS.
3. BEFORE ISSUANCE OF PERMITS, CONSTRUCTION OR ANY DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING IS REQUIRED BETWEEN THE CITY OF LYNNWOOD, THE APPLICANT AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE. REQUEST A PRECONSTRUCTION MEETING ON THE CITY OF LYNNWOOD PUBLIC WORKS INSPECTION LINE AT (425) 670-5201.
4. ALL WORK WITHIN THE SITE AND CITY OF LYNNWOOD RIGHT OF WAY SHALL BE SUBJECT TO INSPECTION BY TRANE AND/OR A DESIGNATED TRANE REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY TRANE IN SUFFICIENT TIME TO PERMIT INSPECTION PRIOR TO AND DURING WORK.
5. CONFLICTS SHALL BE RESOLVED PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. WORK NOT READY FOR A REQUESTED INSPECTION UPON THE ARRIVAL OF TRANE AND/OR A DESIGNATED TRANE REPRESENTATIVE MUST BE RESCHEDULED FOR INSPECTION AND A RE-INSPECTION FEE MAY BE IMPOSED.
7. THE CONTRACTOR SHALL KEEP PLANS ON SITE AT ALL TIMES FOR RECORDING "AS-BUILT" INFORMATION. IN ADDITION, A SURVEY SHALL BE PROVIDED.
8. THE CITY OF LYNNWOOD SHALL BE PROVIDED RECORD PLANS AS REQUIRED AT THE COMPLETION OF CONSTRUCTION STAMPED AND SIGNED BY A LICENSED SURVEYOR AND/OR THE DESIGN ENGINEER, VERIFYING THE INFORMATION AS PROVIDED BY THE CONTRACTOR AND/OR THE SURVEYOR UPON COMPLETION OF THE PROJECT. AS BUILT SHALL BE PROVIDED IN THE FOLLOWING FORMS: 1 SET OF PRINTS AND ELECTRONIC COPY (CAD AND PDF).
9. THE LOCATION OF UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN HERE ARE FOR THE PURPOSE OF ASSISTING THE CONTRACTOR IN LOCATING SAID UTILITIES. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATION CENTER (1-800-424-5555) 48 HOURS MINIMUM PRIOR TO THE BEGINNING OF CONSTRUCTION AND OBTAIN ON-SITE UTILITIES LOCATIONS. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED PRIOR TO PROCEEDING WITH CONSTRUCTION.
10. REPLACE ALL DAMAGED SURVEY MONUMENTS IN ACCORDANCE WITH WAC 332-120.
11. THE FORCE MAIN DEPTH SHOWN ON THE PLANS HEREIN IS SCHEMATIC IN NATURE AND MAY BE FIELD ADJUSTED TO MINIMIZE TRENCH DEPTH, SO LONG AS A MINIMUM OF 4-FOOT OF COVER IS ACHIEVED AND CROSSING UTILITY CLEARANCES IDENTIFIED ARE MAINTAINED. AT NO POINT SHALL THE CONTRACTOR DEFLECT THE PIPE MORE THAN MANUFACTURER RECOMMENDATIONS OR AS DIRECTED BY TRANE AND\OR THE ENGINEER.
12. ALL PAVEMENT MARKINGS, DISTURBED BY THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, SHALL BE RESTORED TO EXISTING OF BETTER CONDITION PER THE CITY OF LYNNWOOD STANDARDS.

SEWER FORCE MAIN CONSTRUCTION NOTES

1. FORCE MAIN TRENCH SECTION AND ALL EXCAVATED AREAS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND WITH SECTIONS 7-9.3(10) AND 7-9.3(11) OF THE STANDARD SPECIFICATIONS. COMPACTION TESTING SHALL BE REQUIRED DURING BACKFILLING OPERATIONS ON ALL 24" AND LARGER PIPE, ALL OPEN CUTS AND/OR CROSSINGS WITHIN PAVED OR TRAVELED AREAS AND AT THE DISCRETION OF TRANE. IF TRENCH BACKFILL DOES NOT MEET COMPACTION REQUIREMENTS, CONTRACTOR SHALL EXCAVATE, RE-COMPACT AND RETEST MATERIAL AT CONTRACTOR'S EXPENSE.
2. ENGINEER-APPROVED THRUST RESTRAINTS ARE REQUIRED FOR ALL UNRESTRAINED FITTINGS. THRUST BLOCKING IS THE PREFERRED METHOD UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPE JOINT RESTRAINT SO THAT THE PIPE DOES NOT SEPARATE DUE TO THERMAL EXPANSION, UNRESOLVED THRUST FORCES, OR DESTABILIZATION OF STEEP SLOPES.
3. AT POINTS WHERE EXISTING THRUST BLOCKING EXISTS, MINIMUM CLEARANCE OF UNDISTURBED SOIL BETWEEN THE CONCRETE BLOCKING AND PROPOSED BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.
4. THE CONTRACTOR SHALL PERFORM PRESSURE TESTING IN ACCORDANCE WITH THE SPECIFICATIONS, UNLESS OTHERWISE APPROVED. THE ENGINEER HAS DISCRETION TO MODIFY THE TESTING REQUIREMENTS AS DEEMED APPROPRIATE.
5. CONTRACTOR SHALL CONSTRUCT FORCE MAIN IN SUCH A MANNER AS TO ELIMINATE JOINT(S) WITHIN 10 FEET OF A WATER CROSSING. WHERE 18" OF VERTICAL SEPARATION BETWEEN CROSSINGS AND THE FORCE MAIN CANNOT BE OBTAINED, THE CONTRACTOR SHALL ENCASE THE PROPOSED FORCE MAIN PER THE WASHINGTON STATE DEPARTMENT OF ECOLOGY REQUIREMENTS.
6. REPLACE ALL DAMAGED SURVEY MONUMENTS IN ACCORDANCE WITH WAC 332-120.
7. AIR VACUUM VALVE ASSEMBLY, AIR VACUUM VALVE ASSEMBLY VENT PIPE, AND DRAIN LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE AND SHALL BE FIELD LOCATED AS DIRECTED BY THE CITY AND/OR TRANE.

EXISTING UTILITIES

1. ALL EXISTING UTILITIES INDICATED ON THE PLANS HAVE BEEN PLOTTED FROM THE BEST INFORMATION AVAILABLE TO THE ENGINEER AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. THE SOURCE OF INFORMATION GENERALLY CONSISTS OF CONSTRUCTION RECORDS, UTILITY LOCATES, AND OTHER DATA OBTAINED VERBALLY FROM OFFICIALS ASSOCIATED WITH THE PARTICULAR UTILITY. IT IS UNDERSTOOD THAT OTHER ABOVE-GROUND AND UNDERGROUND FACILITIES NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN TO AVOID DAMAGE AND/OR DISTURBANCE TO SUCH UTILITIES, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. CONTRACTOR SHALL PRESERVE, PROTECT AND SUPPORT ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
2. OVERHEAD UTILITIES: NOT ALL OVERHEAD UTILITIES MAY BE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO INDEPENDENTLY VERIFY ALL OVERHEAD UTILITIES. THE CONTRACTOR SHALL ACCOUNT FOR ACCOMMODATING ALL OVERHEAD UTILITIES IN HIS BID AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR FACILITATING OVERHEAD UTILITIES.
3. POWER, TELEPHONE, GAS AND CABLE: WHERE THESE UTILITIES CROSS THE PROPOSED SEWER MAIN, THE DEPTH OF EACH IS SHOWN ON THE PROFILES AND IS BASED ON TYPICAL LAYING DEPTHS FOR EACH OF THESE UTILITIES. ACTUAL DEPTHS ARE UNKNOWN AND MAY VARY SIGNIFICANTLY. CONTRACTOR SHALL NOTIFY THE TRANE AND THE ENGINEER IMMEDIATELY IF UTILITY CROSSING DEPTH CONFLICTS ARISE.
4. PROVIDE NEOPRENE CUSHION BETWEEN PIPING AT PIPE CROSSINGS WHERE PIPES CROSS WITH LESS THAN 12 INCHES OF VERTICAL SEPARATION. A SAND CUSHION MAY BE USED IN AREAS WHERE ADEQUATE COMPACTION CAN BE ACHIEVED AND AS APPROVED BY THE ENGINEER.

TESC GENERAL NOTES

1. REFER TO GENERAL PLAN NOTES FOR ADDITIONAL REQUIREMENTS.
2. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
3. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED, AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN (INCLUDING INDIVIDUAL TREES TO BE SAVED) SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED AS OUTLINED ON THE TYPICAL CONSTRUCTION SEQUENCE AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
7. CONSTRUCTION ACCESS TO THE SITE SHALL BE ONLY AS SHOWN ON THE APPROVED PLANS. ALL VEHICLES LEAVING THE SITE, ONTO PUBLIC RIGHTS OF WAY, SHALL BE CLEANED TO PREVENT "TRACKING" OF MUD, DIRT OR OTHER DEBRIS.
8. THE CONTRACTOR SHALL SWEEP ACCESS STREETS AND RIGHT-OF-WAY AT LEAST DAILY OR MORE FREQUENTLY AS MAY BE NECESSARY AND SO DIRECTED BY THE CITY.
9. CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
10. STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SECURED PLASTIC COVER, SEEDING OR MULCHING. HYDROSEEDING IS PREFERRED.
11. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES.
12. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 2 DAYS DURING THE WET SEASON OR 7 DAYS DURING THE DRY, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G. SEEDING MULCHING, PLASTIC COVERING, ETC.)

TRAFFIC CONTROL

1. THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLAN(S) SHOWING SIGNAGE AND FLAGGERS AS NEEDED TO COMPLETE THESE IMPROVEMENTS AND SUBMIT TO CITY FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE. ALL TRAFFIC CONTROL DEVICES AND PROCEDURES SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), WSDOT AND THE CITY OF LYNNWOOD STANDARDS.
2. THE CONTRACTOR SHALL PROVIDE FOR EMERGENCY VEHICLE ACCESS TO ALL STREETS WITHIN AND ADJACENT TO THE CONSTRUCTION SITE. THE CONTRACTOR SHALL PROVIDE 48-HOUR NOTICE TO EMERGENCY DEPARTMENTS WHICH MAY BE AFFECTED BY ACTIONS OF THE CONTRACTOR.
3. OPEN TRENCHES MUST BE SECURELY COVERED WITH APPROVED STEEL PLATES DURING NON-WORKING PERIODS. PROVIDE SAFE PEDESTRIAN ACCESS THROUGH WORK ZONES AT ALL TIMES.
4. NOTIFY COMMUNITY TRANSIT 48 HOURS MINIMUM PRIOR TO CLOSING A LANE ON A TRANSIT ROUTE DURING ANY PERIODS THAT A ROUTE IS IN OPERATION.
5. DETAILED TRAFFIC CONTROL PLANS SPECIFIC TO EACH PHASE AND LOCATION OF CONSTRUCTION WHERE TRAFFIC OF ANY TYPE WILL BE IMPACTED MUST BE SUBMITTED FOR REVIEW AND APPROVAL WITH OTHER APPLICATION MATERIALS FOR (A) RIGHT-OF-WAY USE PERMIT(S). SUBMITTED TRAFFIC CONTROL PLANS MUST COMPLY WITH THE LATEST WASHINGTON STATE MODIFIED AND ADOPTED VERSION OF THE MUTCD AND LYNNWOOD STANDARD TRAFFIC CONTROL PLANS.
6. PROPOSED TRAFFIC CONTROL PLANS RESTRICTING MOVEMENTS FOR PEDESTRIANS OR VEHICLES AT INTERSECTIONS OF NAMED STREETS MUST INCLUDE A PROPOSED DETOUR ROUTE AS PART OF THE TRAFFIC CONTROL PLAN.
7. NAME AND CONTACT INFORMATION OF INDIVIDUAL(S) PREPARING TRAFFIC CONTROL PLANS MUST BE INCLUDED ON EACH SHEET. PERSON OR QUALIFIED REPRESENTATIVE MUST REMAIN AVAILABLE UNTIL TRAFFIC CONTROL PLANS ARE APPROVED.

ADDITIONAL NOTES:

56TH AVENUE WEST- KEEP ONE LANE OPEN AT ALL TIMES. ALTERNATE TRAFFIC DIRECTION WITH FLAGGERS. DAYTIME WORK IS PERMITTED. NO LANE CLOSURES FROM 30 MINUTES BEFORE SCHOOL STARTS UNTIL 30 MINUTES AFTER SCHOOL STARTS. NO LANE CLOSURES FROM AN HOUR BEFORE SCHOOL IS OVER UNTIL AN HOUR AFTER SCHOOL IS OVER. COORDINATE WITH CROSSING GUARDS. SPOTTERS TO ESCORT PEDESTRIANS THROUGH WORK ZONE. NOTIFY SCHOOL PRINCIPAL WHEN WORK WILL BE PERFORMED. MONDAY THROUGH FRIDAY

196TH STREET SW- LANE CLOSURES ON 196TH STREET SW SHALL BE LIMITED TO HOURS BETWEEN 9:00 PM AND 6:00 AM. ONE LANE IN EACH DIRECTION MUST REMAIN OPEN. MONDAY THROUGH FRIDAY

SCRIBER LAKE ROAD- IF ONLY CONTINUOUS TWO-WAY LEFT TURN LANE IS CLOSED, WORK CAN BE PERFORMED DURING DAYTIME HOURS. FLAGGERS ON EACH END OF ACTIVE CONSTRUCTION ZONE SHALL HELP MOTORISTS MAKE U-TURNS SO THEY CAN GO BACK TO A DRIVEWAY THAT WAS BLOCKED. FLAGGERS CONTROL TRAFFIC WHEN CONSTRUCTION EQUIPMENT MOVES IN AND OUT OF THE CONTINUOUS TWO-WAY LEFT TURN LANE.

60TH AVE W- IF ONLY SOUTH BOUND LANE IS CLOSED, WORK CAN BE PERFORMED DURING DAYTIME HOURS. MAINTAIN NORTH BOUND RIGHT/LEFT TURNS AND SOUTH BOUND RIGHT/LEFT TURNS ONTO 202ND WITH FLAGGERS.

202ND ST SW- FOR NORMAL WORK HOURS, MAINTAIN TWO TEN FOOT (MIN) WIDE LANES FOR EAST BOUND AND WEST BOUND TRAFFIC AT ALL TIMES. KEEP ONE DRIVEWAY OPEN FOR EACH PROPERTY WITH ACCESS ONTO 202ND ST SW AT ALL TIMES. OTHERWISE WORK HOURS ARE 9:00 PM TO 6:00 AM WITH ONE LANE OPEN AND ALTERNATING EAST BOUND / WEST BOUND TRAFFIC. ANOTHER OPTION FOR NORMAL WORK HOURS IS TO HAVE NO MORE THAN 300 LF OF SINGLE LANE CONSTRUCTION ZONE AND ALTERNATE EAST BOUND / WEST BOUND TRAFFIC WITH FLAGGERS. ONE LANE IN EACH DIRECTION MUST BE KEPT OPEN DURING NON-WORKING HOURS.

202ND AT SR99- CURB LANES CAN BE CLOSED DURING NORMAL HOURS. NOTIFY COMMUNITY TRANSIT 48 HOURS PRIOR TO CLOSING A CURB LANE. ANY OTHER LANE CLOSURE ON SR99 WILL BE 9:00 PM TO 6:00 AM. MAINTAIN ONE LANE OPEN IN EACH DIRECTION.

68TH AVE W- MAINTAIN ONE LANE IN EACH DIRECTION AT ALL TIMES FOR NORMAL WORK HOURS. FLAGGERS ON EACH END OF CONSTRUCTION ZONE HELP MOTORISTS MAKE U-TURNS IF THEY COULD NOT MAKE A LEFT TURN INTO A DRIVEWAY. CUSTOM SIGNS ON EACH END: "LEFT TURNS PROCEED FOR ASSISTED U-TURN." COORDINATE ADVERTISING WITH EDMONDS COMMUNITY COLLEGE AND CITY OF LYNNWOOD. USE PORTABLE CHANGEABLE MESSAGE SIGNS ON ROADWAY TWO WEEKS (MIN) IN ADVANCE OF WORK.

EDMONDS COMMUNITY COLLEGE PRIVATE ROAD- LANE CLOSURE ONLY DURING EDMONDS COMMUNITY COLLEGE QUARTER BREAKS. OPEN ALL LANES BEFORE REGISTRATION FOR NEXT QUARTER. COORDINATE WITH COLLEGE FACILITIES MANAGEMENT AND EVENT MANAGEMENT. PROVIDE INGRESS/EGRESS TO/FROM 68TH AVE W USING MARKED ROUTES THROUGH PARKING AREAS.

SURVEY CONTROL

DATUMS:
HORIZONTAL COORDINATES ARE GROUND PROJECT DATUM IN US FEET. UNITS DERIVED FROM APPLYING CSF 0.999941187634 AND ADDING 100,000 METERS TO WSDOT PUBLISHED MONS IS3173(RM1) AND IS3174(RM2). WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/91.
VERTICAL DATUM: NAVD 88. BENCHMARK: WSDOT SURFACE MONUMENT IS3174 ON CONCRETE SIDEWALK, NORTH SIDE OF SR 524, APPROXIMATELY 150' EAST OF 58TH AVE W.
ELEVATION = 377.06 FEET

NOTES:
1. UTILITIES SHOWN ARE BASED ON OBSERVATION OF SURFACE FEATURES AND PAINT MARKS APPLIED BY AN UNDERGROUND UTILITY LOCATING SERVICE. FIELD LOCATIONS MUST BE VERIFIED PRIOR TO ANY CONSTRUCTION. CALL 1-800-424-5555 FOR THIS VERIFICATION.
2. EDGES OF GUTTERS SHOWN AT DRIVEWAYS ONLY FOR CLARITY.

SIGNED: 09/14/15

SIGNED: 09/14/15

RH2 ENGINEERING, INC.
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BOTHELL, WA
22722 29th Drive SE Suite 210

ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

GENERAL INFO

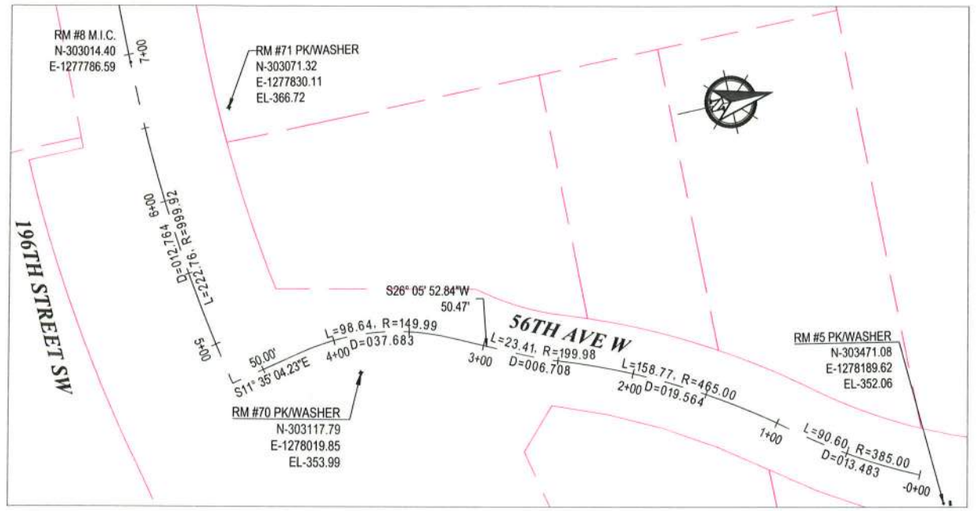
ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO. 114-005
REVIEWED: EH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-GEN02.DWG

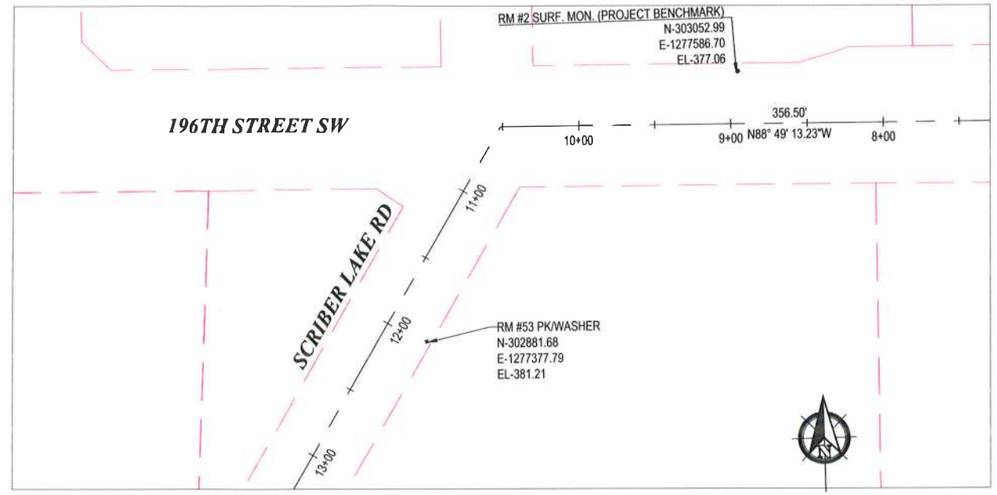
REVISIONS

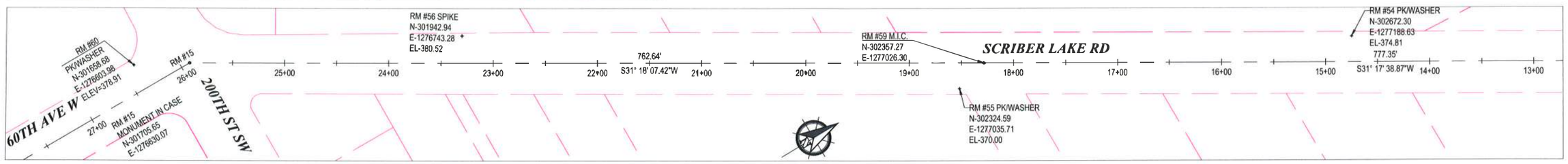
NO	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

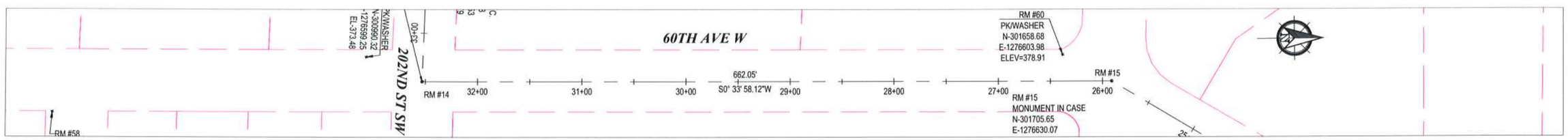
SCALE: SHOWN
0" 1" 2"
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

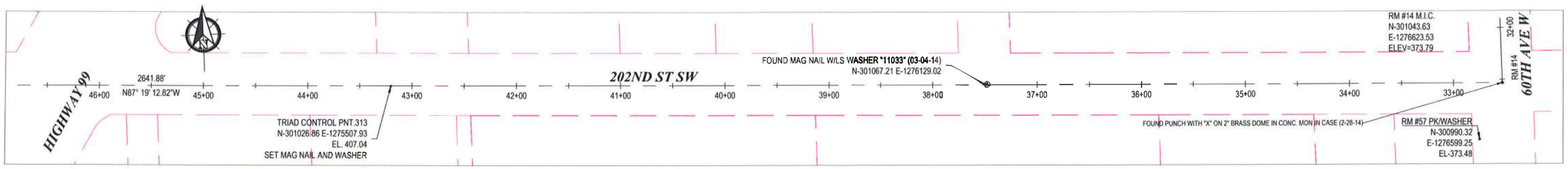
DWG NO. G01 | SHEET NO. 2 / 24

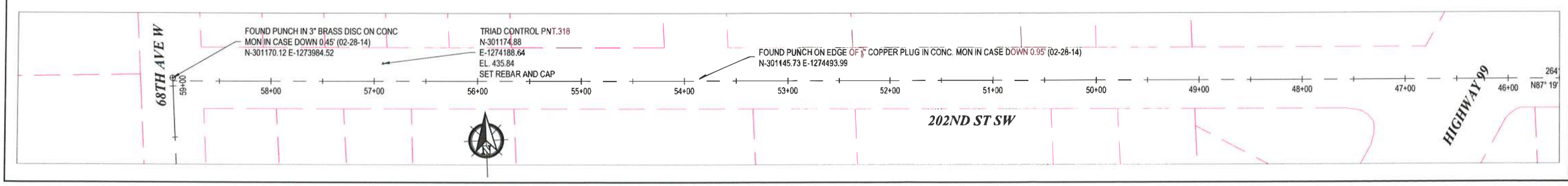












SIGNED: 09/14/15

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CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN STATION LINE DEFINITION

JOB NO: 114-005

CLIENT: TRANE

FILENAME: LS16-D-ALIGN-DEF.DWG

ENGINEER: MRJF | SAVE DATE: Sep 11, 2015

REVIEWED: EDH | PLOT DATE: Sep 14, 2015

REVISIONS

NO	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF
2	09/12/16	REVISED PER SURVEYOR REQUEST	MRJF	RJF

SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C01

SHEET NO.: 3 / 24

RH2 ENGINEERING, INC.
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SIGNED: 09/14/15

SIGNED: 09/14/15

ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN STATION LINE DEFINITION II

ENGINEER: MRJF | SHEE DATE: Sep 11, 2015 | CLIENT: TRANE | JOB NO: 114-005

REVIEWED: EEW | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-ALIGN-DEF.DWG

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
A	09/14/15	CONSTRUCTION SET	MRJF	RJF

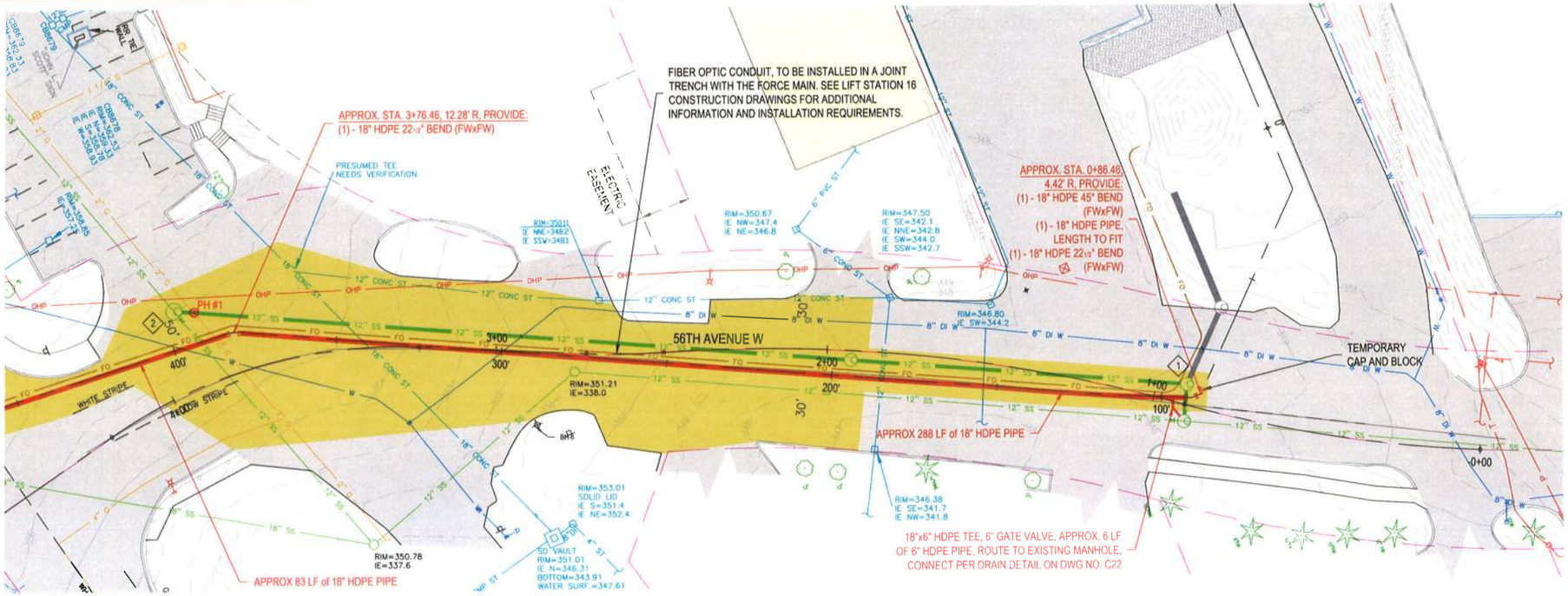
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

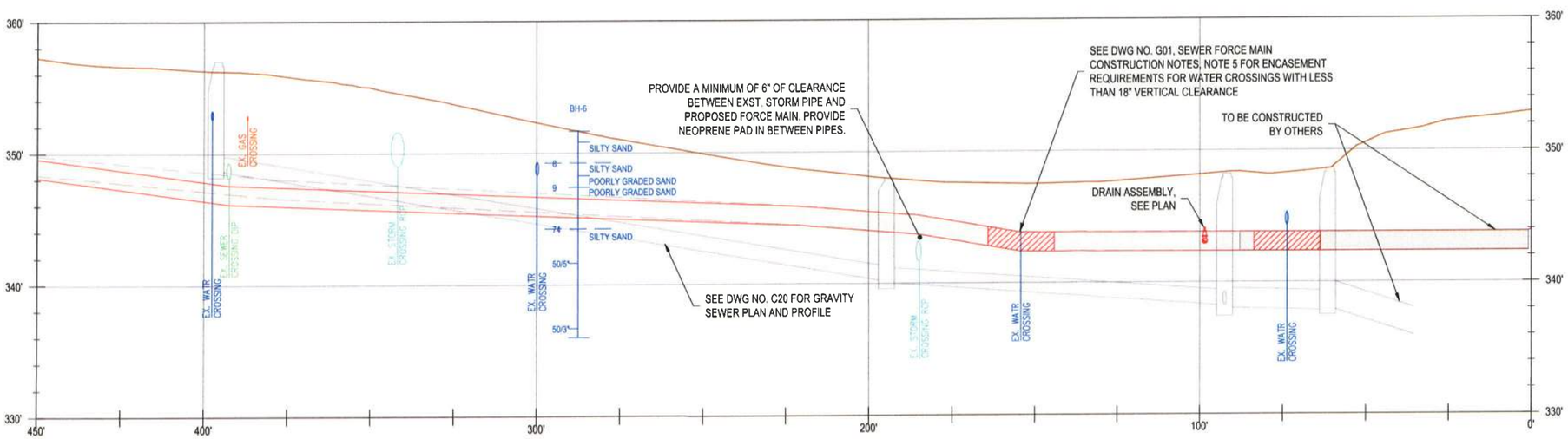
DWG NO.: C02

SHEET NO.: 4 / 24



56TH AVE W PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. CONTRACTOR TO FULLY OVERLAY 56TH AVE W.

1. THE GRAVITY MAIN AND FORCE MAIN WILL BE EXTENDED TOWARDS THE PROPOSED LIFT STATION BY OTHER CONTRACTOR. CONTRACTOR SHALL CAP AND PROVIDE TEMPORARY BLOCKING ON THE FORCE MAIN PIPE.
2. DO NOT REDIRECT SEWAGE FLOW UPON COMPLETION OF GRAVITY MAIN CONSTRUCTION.

LOCATION LEGEND

SIGNED: 09/14/15

SIGNED: 09/14/15

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22722 29th Drive SE, Suite 210

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AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN AND GRAVITY MAIN PLAN AND PROFILE

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO: 114-005
REVIEWED: EH | PLOT DATE: Sep 15, 2015 | FILENAME: LS16-D-C1V03.DWG

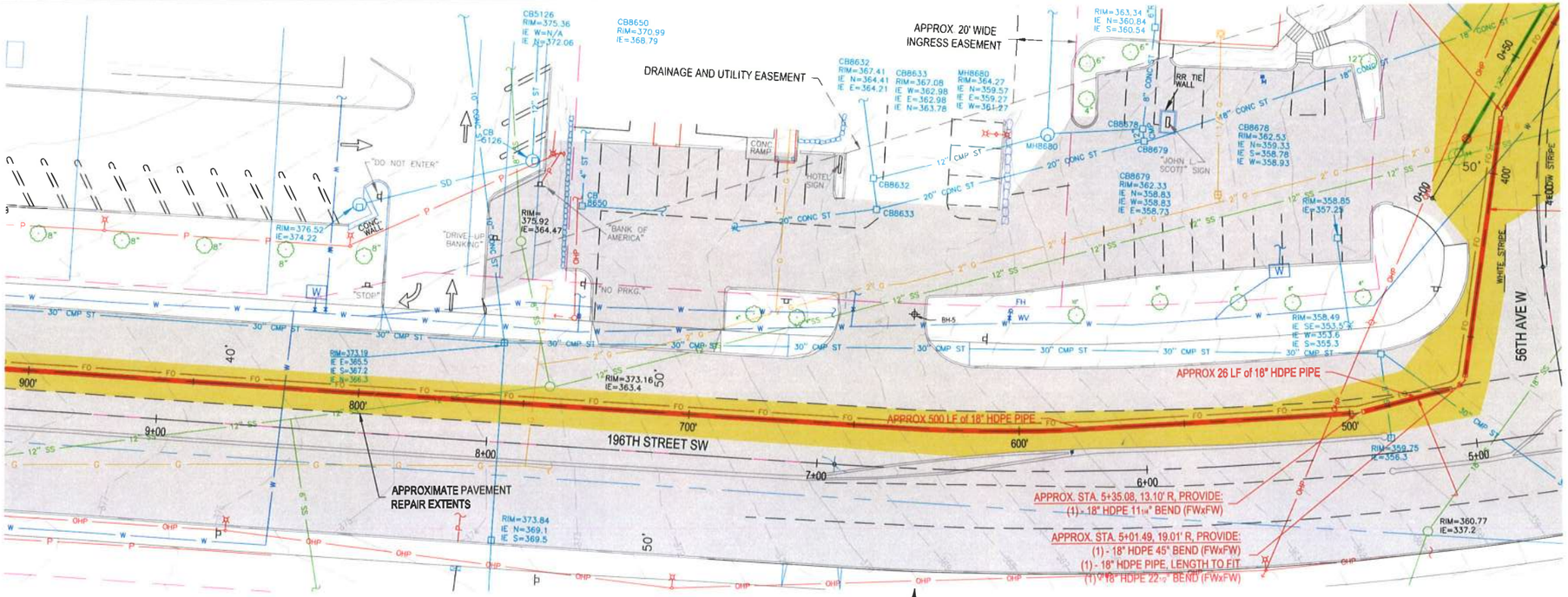
REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN

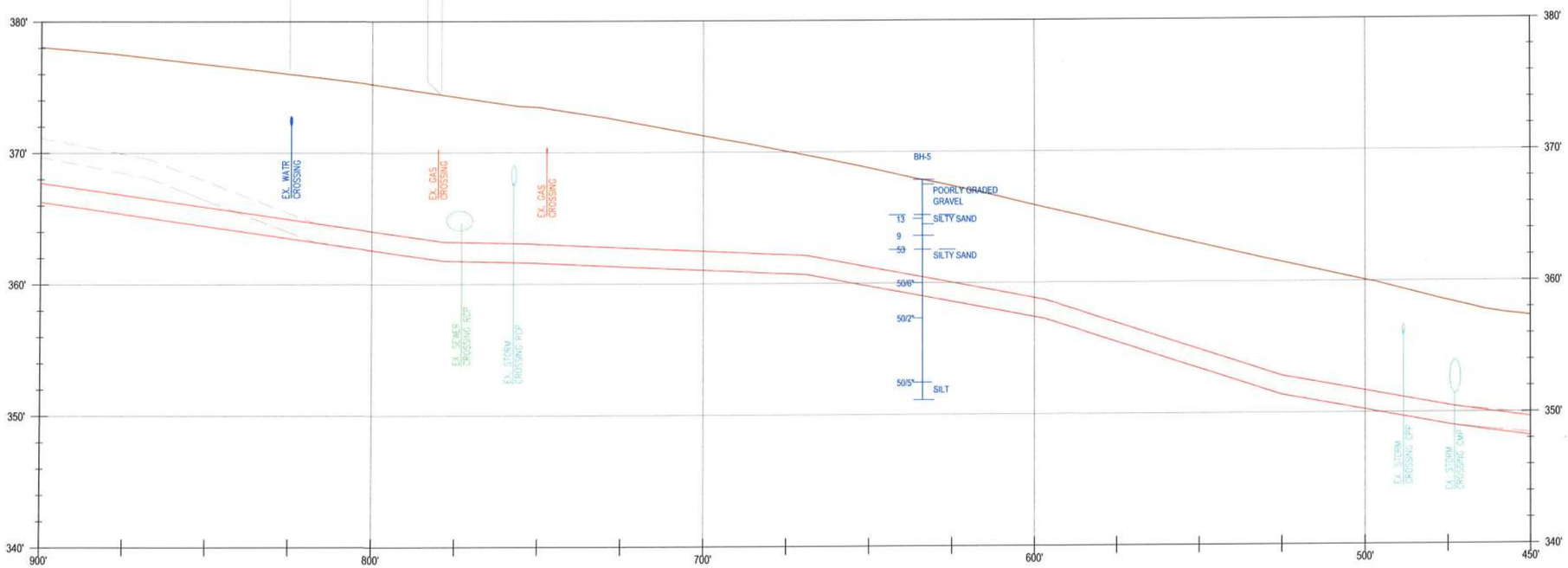
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C03 | SHEET NO.: 5 / 24



196TH ST SW PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. CONTRACTOR TO FULLY OVERLAY 56TH AVE W. ONE LANE OVERLAY REQUIRED FOR 196TH STREET W.

LOCATION LEGEND

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SIGNED: 09/14/15

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AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE II

NO.	DATE	DESCRIPTION	BY	REVIEW
2	09/14/15	CONSTRUCTION SET	MRJF	RJF

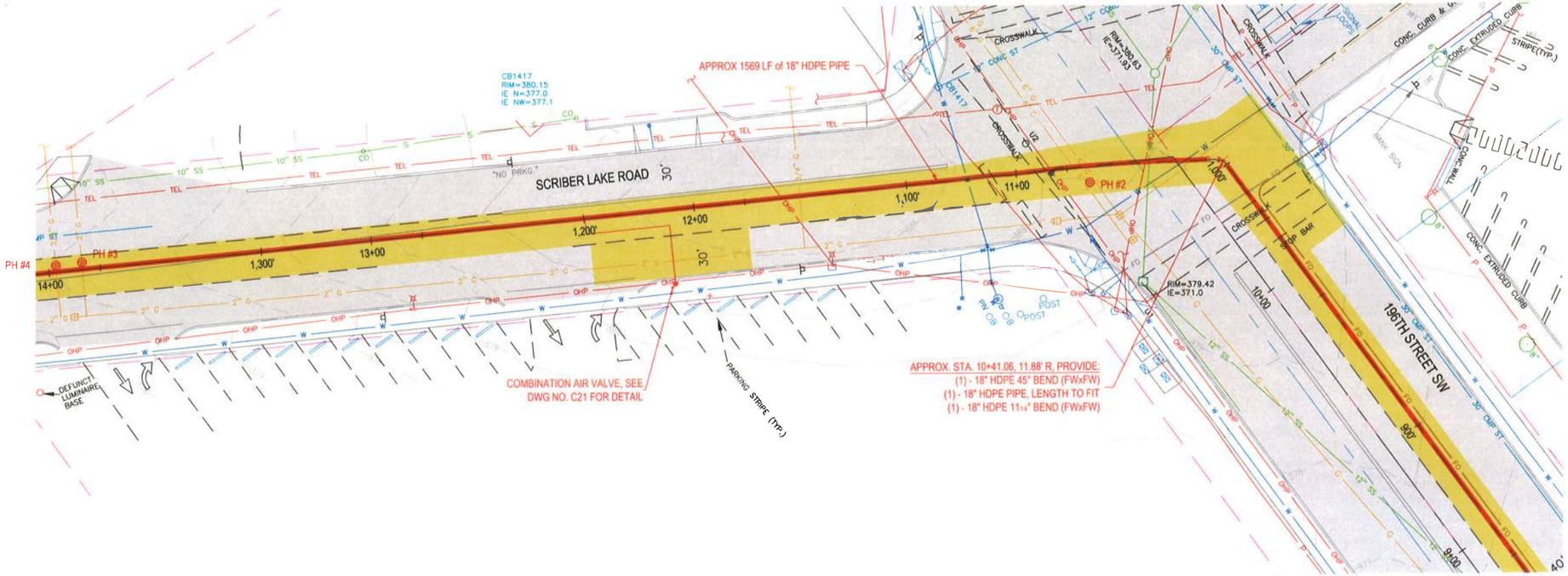
REVISIONS

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CIV03.DWG

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

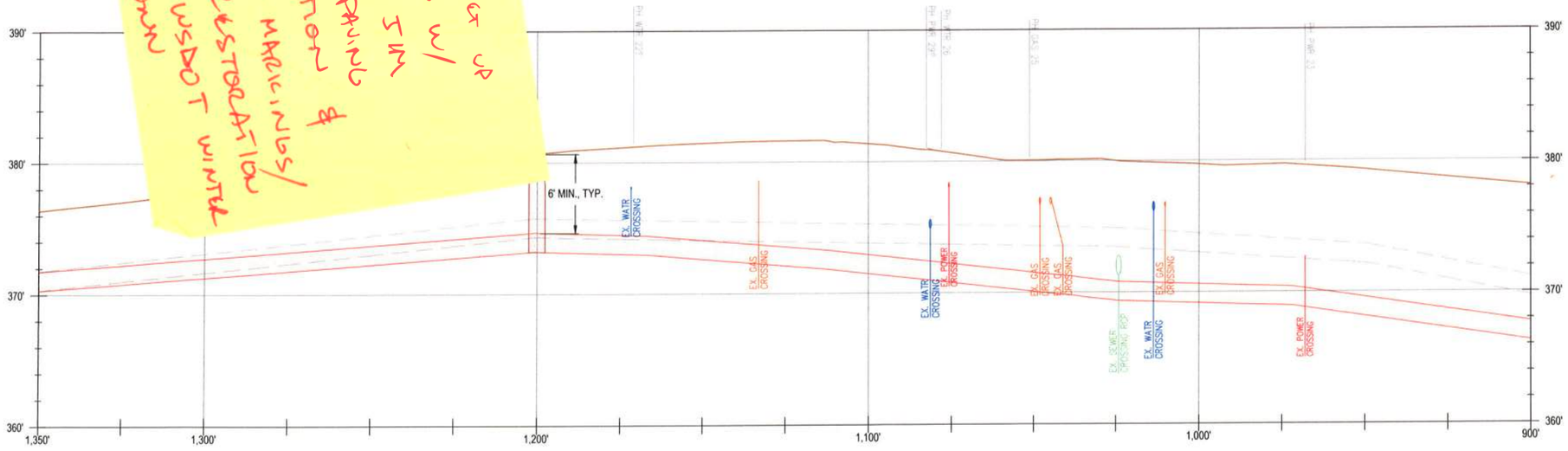
DWG NO.: C04 | SHEET NO.: 6 / 24



196TH ST SW AND SCRIBER LAKE ROAD PLAN

1" = 20'

HAVE BRIAN SET UP A MEETING W/ ARNOLD & JIM ABOUT PAVING & DURATION & PAVEMENT MARKINGS/ CURB RESTORATION PRIOR TO WSDOT WINTER SHUTDOWN



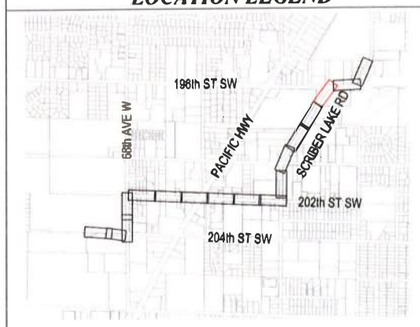
FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. ONE LANE OVERLAY REQUIRED FOR 196TH STREET W AND SCRIBER LAKE ROAD.

LOCATION LEGEND



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SIGNED: 09/14/15

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FORCEMAIN PLAN AND PROFILE III

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

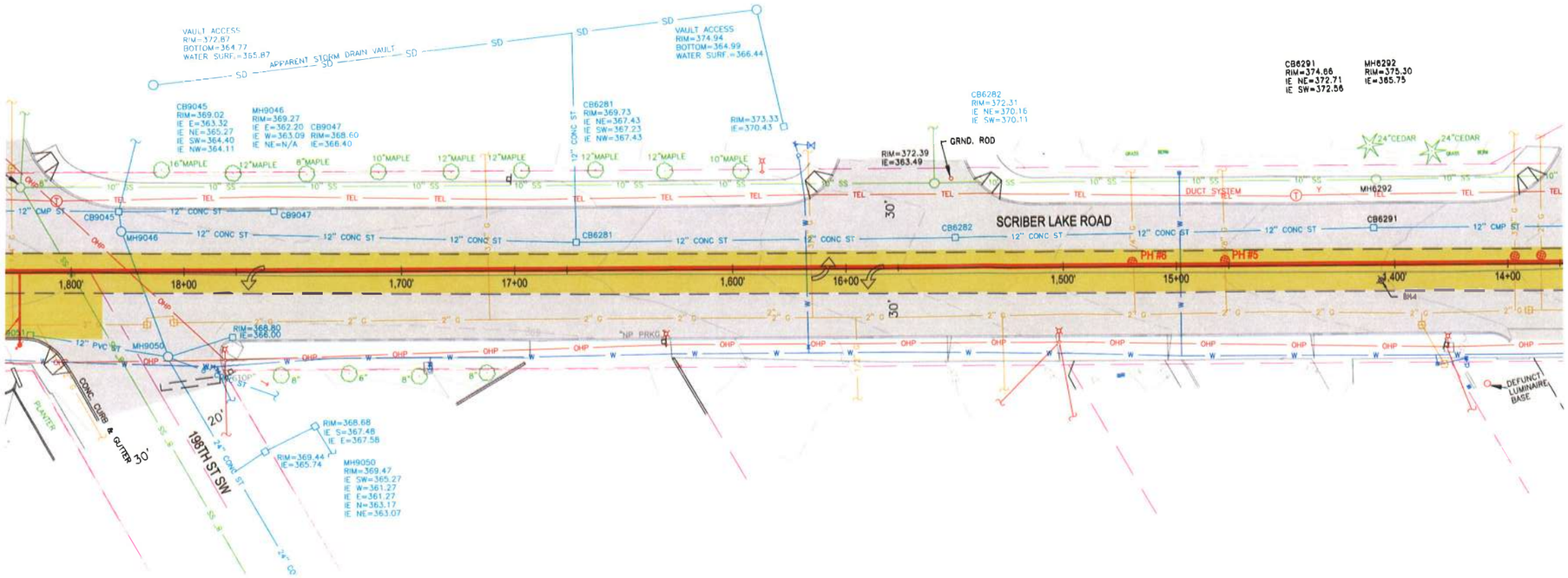
REVISIONS

ENGINEER: MRJF | SIZE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CIV03.DWG

SCALE: SHOWN

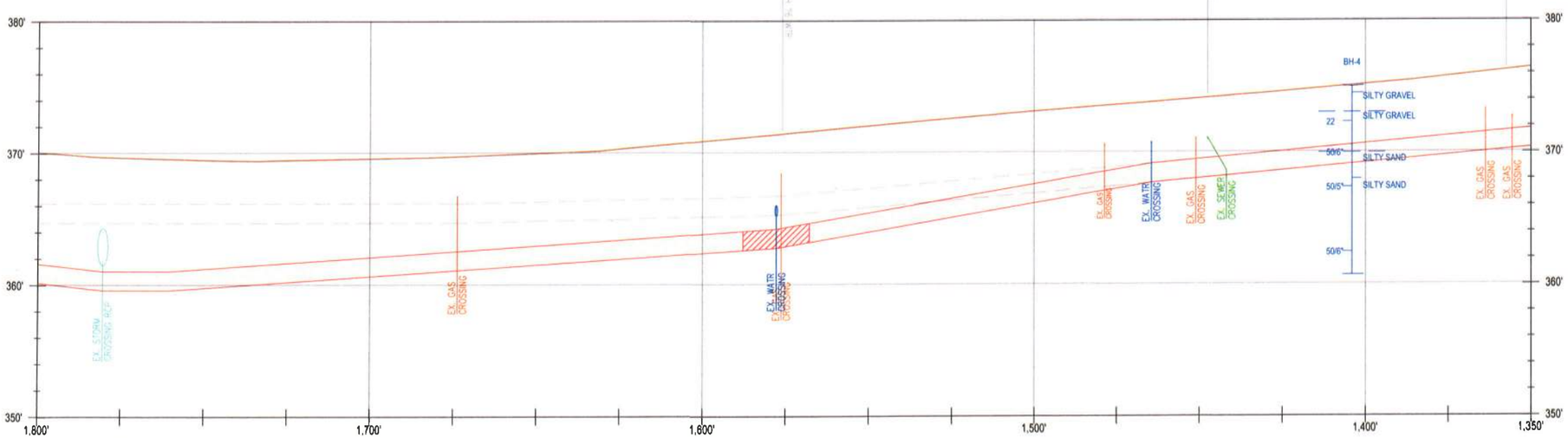
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C05 | SHEET NO.: 7 / 24



SCRIBER LAKE ROAD PLAN

1" = 20'



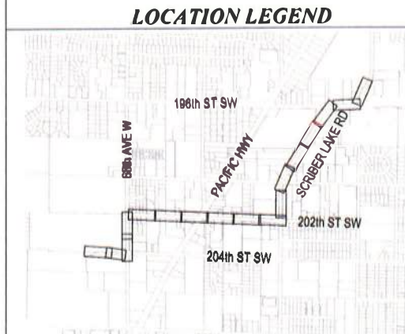
FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS.
ONE LANE OVERLAY REQUIRED FOR SCRIBER LAKE ROAD.

LOCATION LEGEND



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SCRIBER 09/14/15

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PLANNERS ENGINEERS SCIENTISTS
RH2 ENGINEERING, INC.
18728 120th Ave NE, Suite 101
BOTHELL, WA
22722 29th Drive SE, Suite 210

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AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE IV

DESIGNED: MRJF	SHEET DATE: Sep 14, 2015	CLIENT: TRANE	JOB NO: 114-005
RENDERED: EBH	PLOT DATE: Sep 14, 2015	FILENAME: LS16-D-CW03.DWG	

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEWED
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

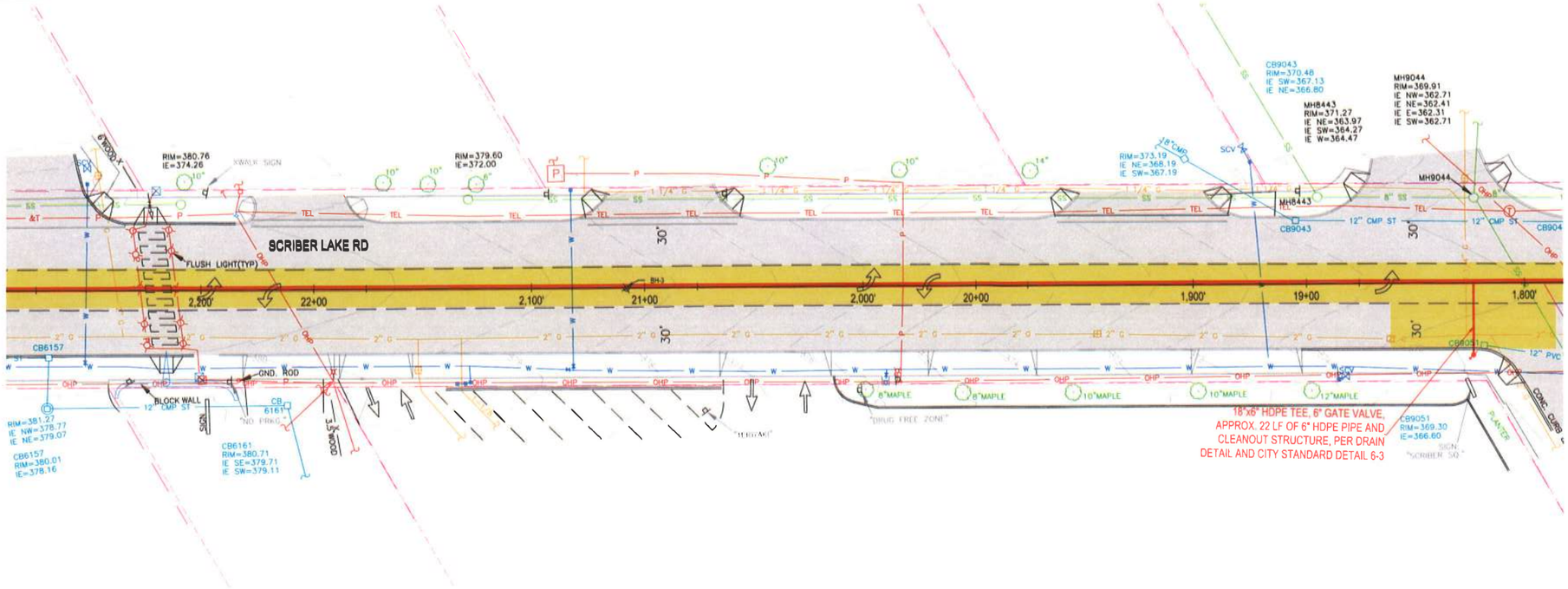
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

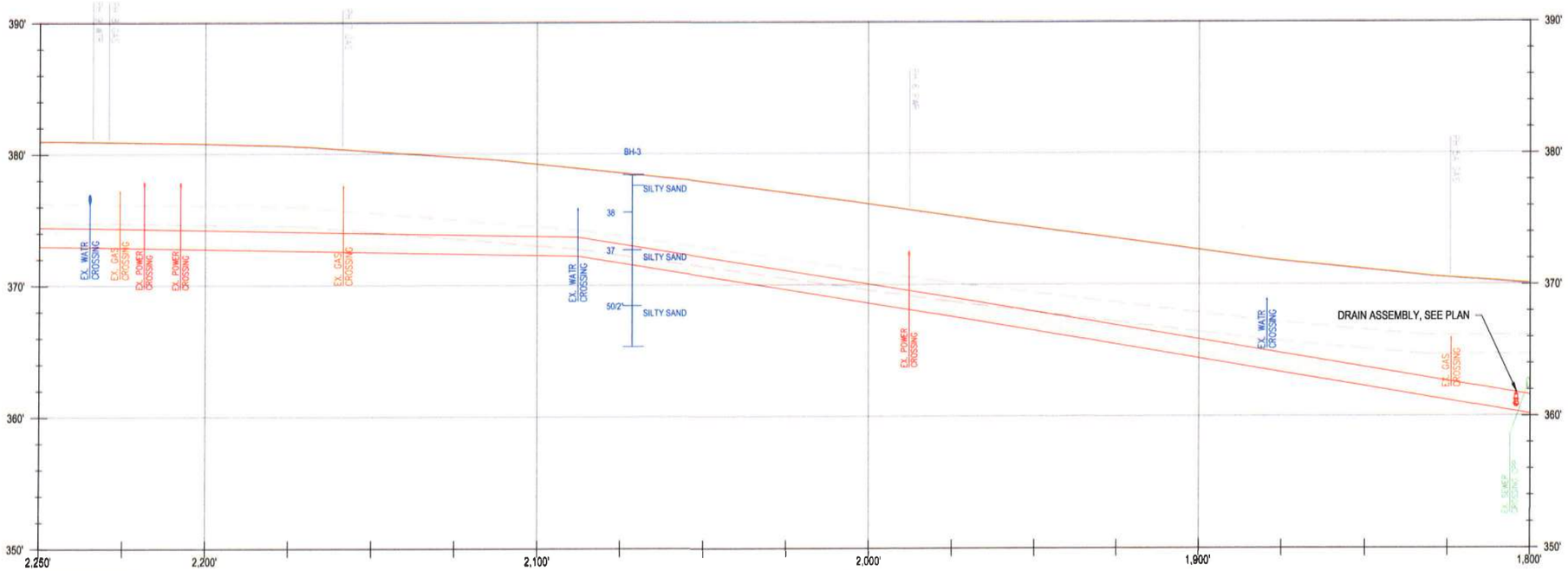
DWG NO.: C06

SHEET NO.: 8 / 24



SCRIBER LAKE ROAD PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS.
ONE LANE OVERLAY REQUIRED FOR SCRIBER LAKE ROAD.

LOCATION LEGEND

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FORCEMAIN PLAN AND PROFILE V

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SIGNED: 09/14/15

SIGNED: 09/14/15

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO. 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CV03.DWG

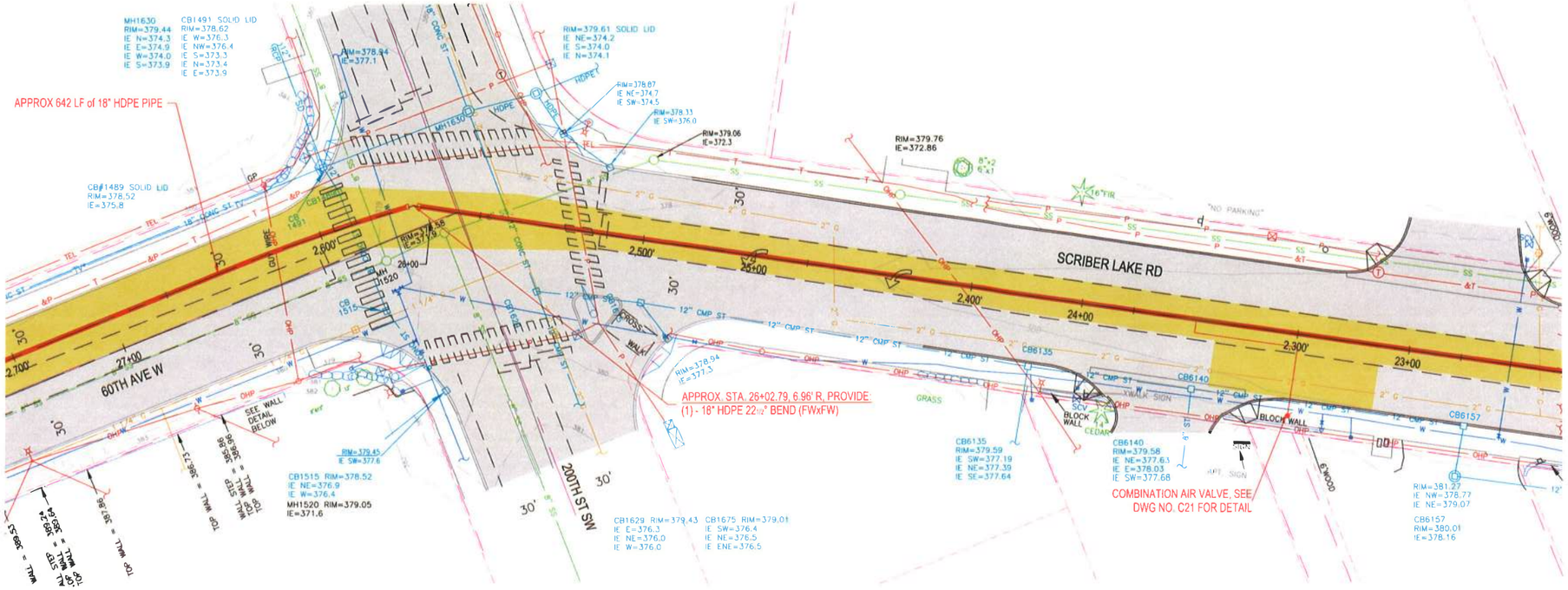
REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN

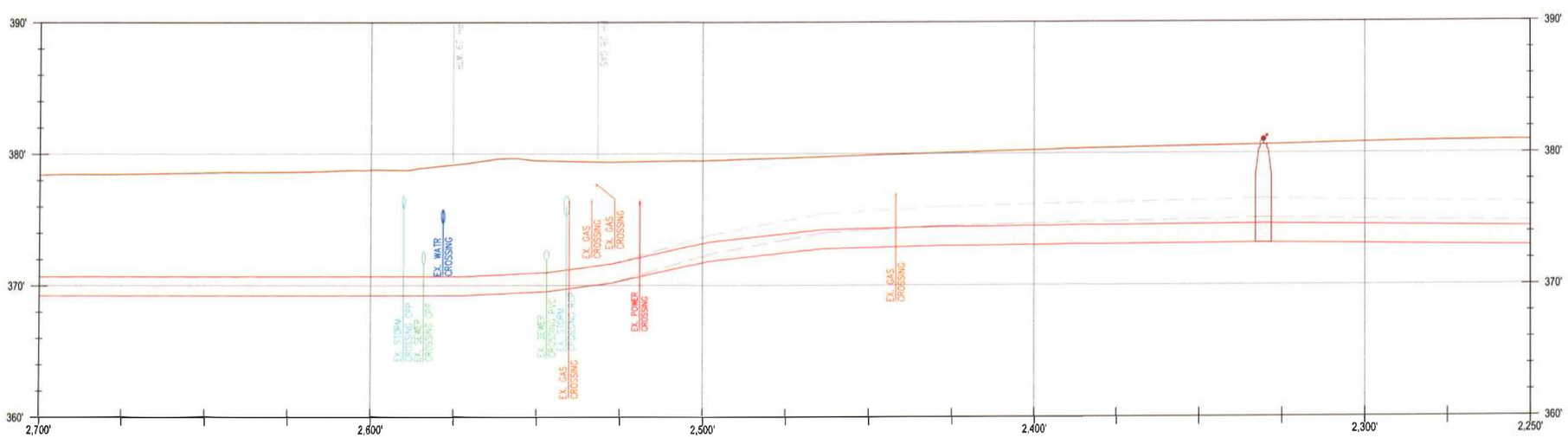
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C07 | SHEET NO.: 9 | 24



SCRIBER LAKE ROAD AND 60TH AVE W PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. ONE LANE OVERLAY REQUIRED FOR SCRIBER LAKE ROAD AND 60TH AVE W.

LOCATION LEGEND

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SIGNED: 09/14/15

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AND FORCEMAIN IMPROVEMENTS

LYNNWOOD

FORCEMAIN PLAN AND PROFILE VI

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CIV03.DWG

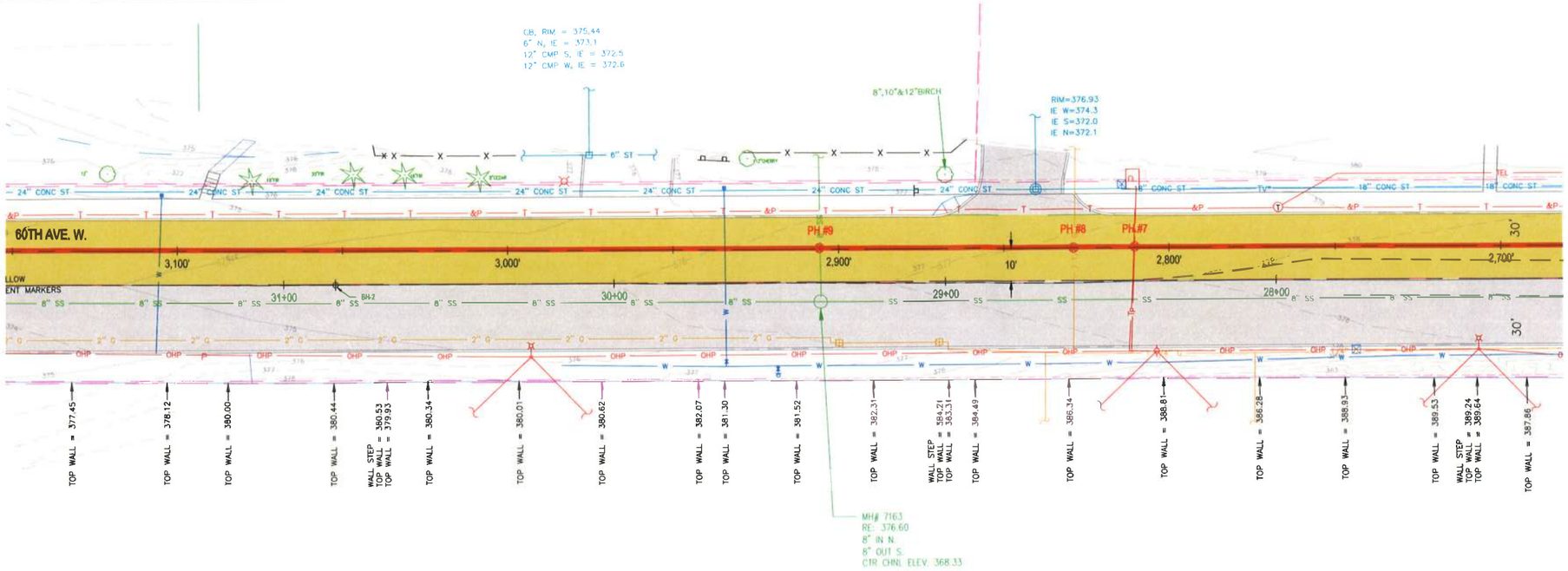
REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN

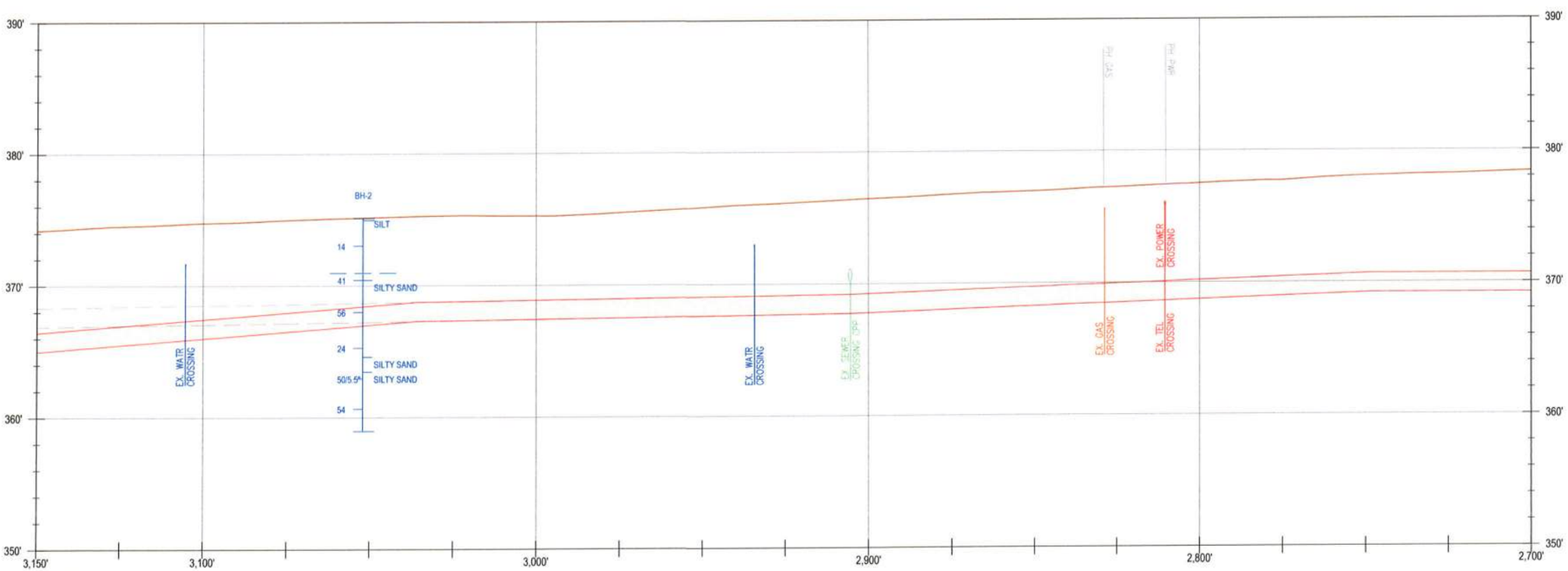
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C08 | SHEET NO.: 10 | 24



60TH AVE W. PLAN

1" = 20'



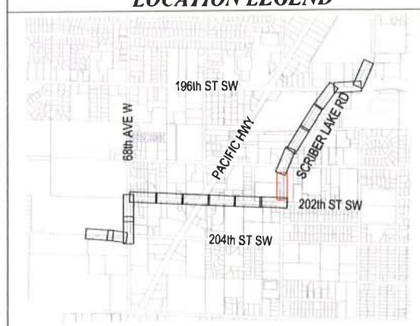
FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS.
ONE LANE OVERLAY REQUIRED FOR 60TH AVE W.

LOCATION LEGEND



EDWIN HALIM
STATE OF WASHINGTON
38889
REGISTERED PROFESSIONAL ENGINEER
SIGNED: 09/14/15

TONY V. PARDINI
STATE OF WASHINGTON
26978
REGISTERED PROFESSIONAL ENGINEER
SIGNED: 09/14/15

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LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE VII

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

REVISIONS

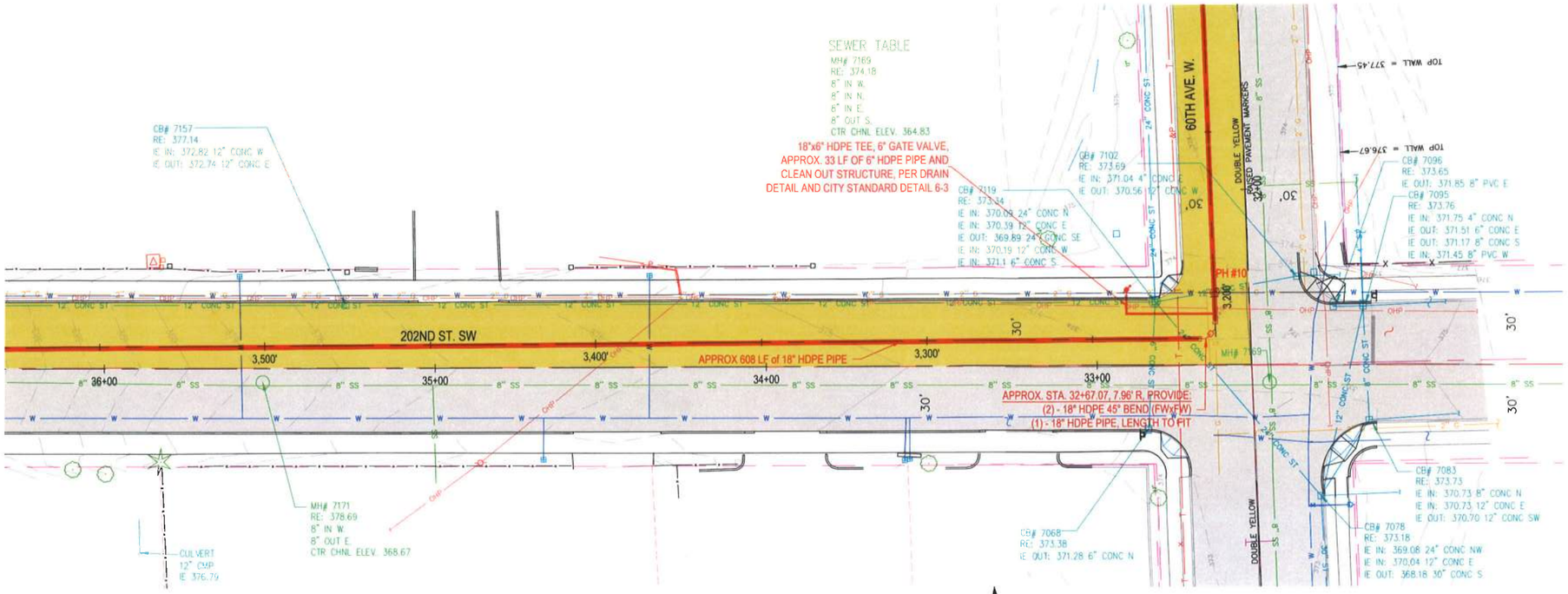
ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CIV03.DWG

SCALE: SHOWN

0' 1' 2'

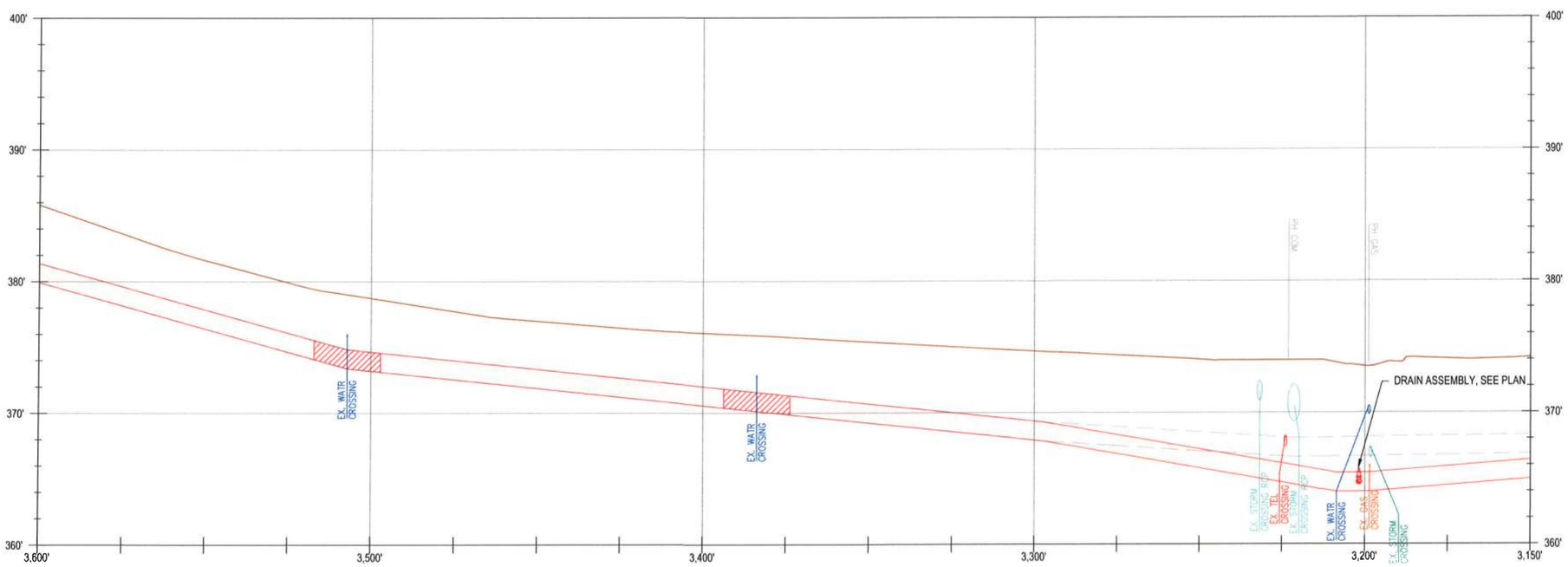
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C09 | SHEET NO.: 11 / 24



60TH AVE W AND 202ND ST SW PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. ONE LANE OVERLAY REQUIRED FOR 60TH AVE AND 202ND STREET SW.

LOCATION LEGEND

SIGNED: 09/14/15

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Bothell, WA
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AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE VIII

ENGINEER: MRJF
REVIEWED: EDH
SAVE DATE: Sep 14, 2015
PLOT DATE: Sep 14, 2015
CLIENT: TRANE
FILENAME: LS16-D-CV03.DWG
JOB NO.: 114-005

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	09/14/15	CONSTRUCTION SET	MRJF
			RJF
			REVIEW

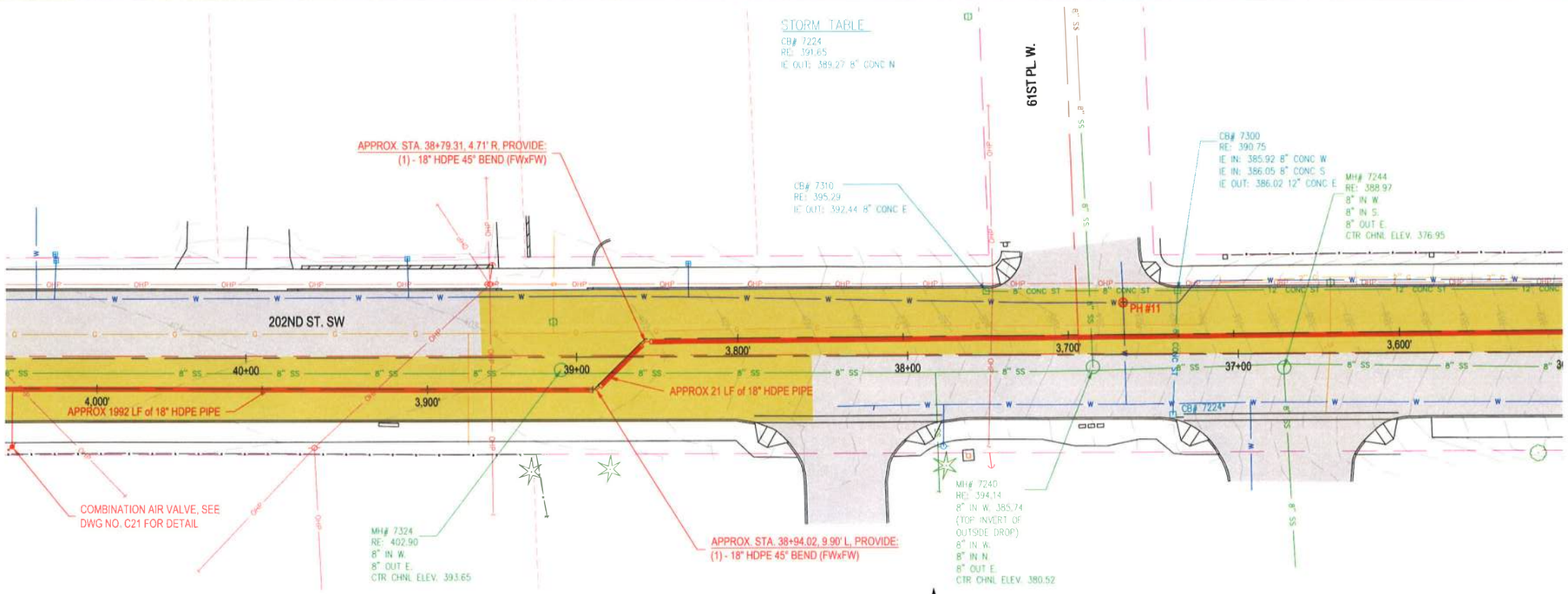
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

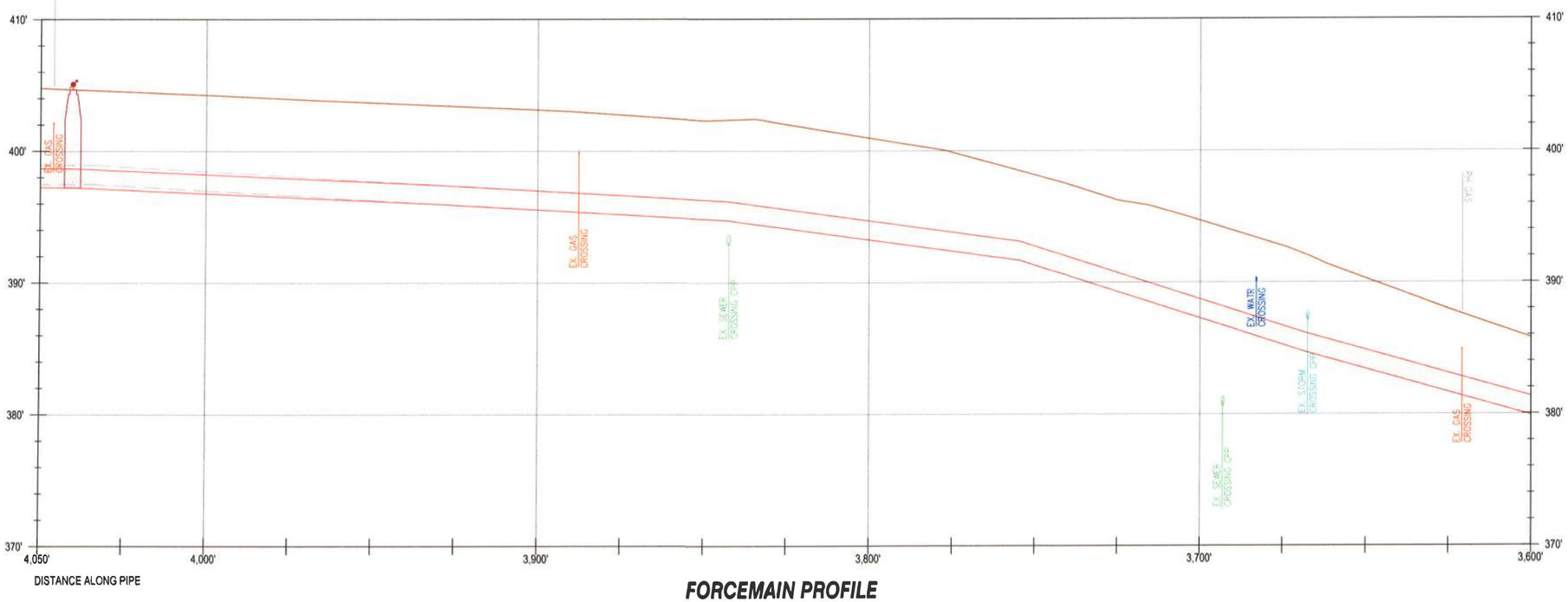
DWG NO.: C10

SHEET NO.: 12 / 24



202ND ST .SW PLAN

1" = 20'



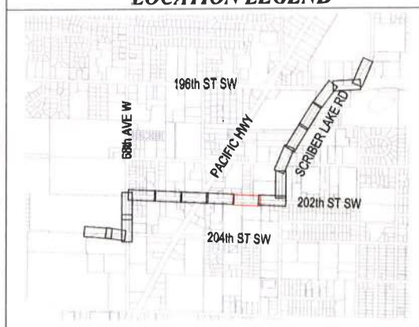
FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS.
ONE LANE OVERLAY REQUIRED FOR 202ND STREET SW.

LOCATION LEGEND



SIGNED: 09/14/15

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AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE IX

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVISED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CV03.DWG

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

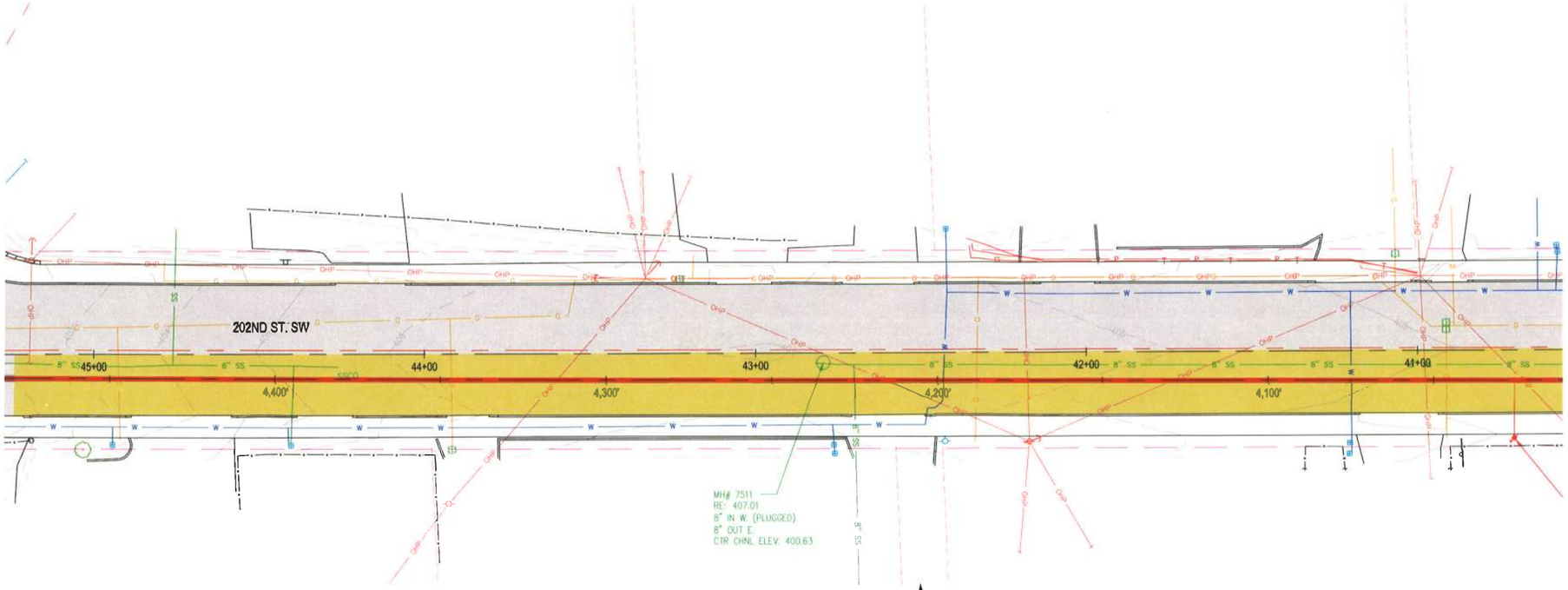
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

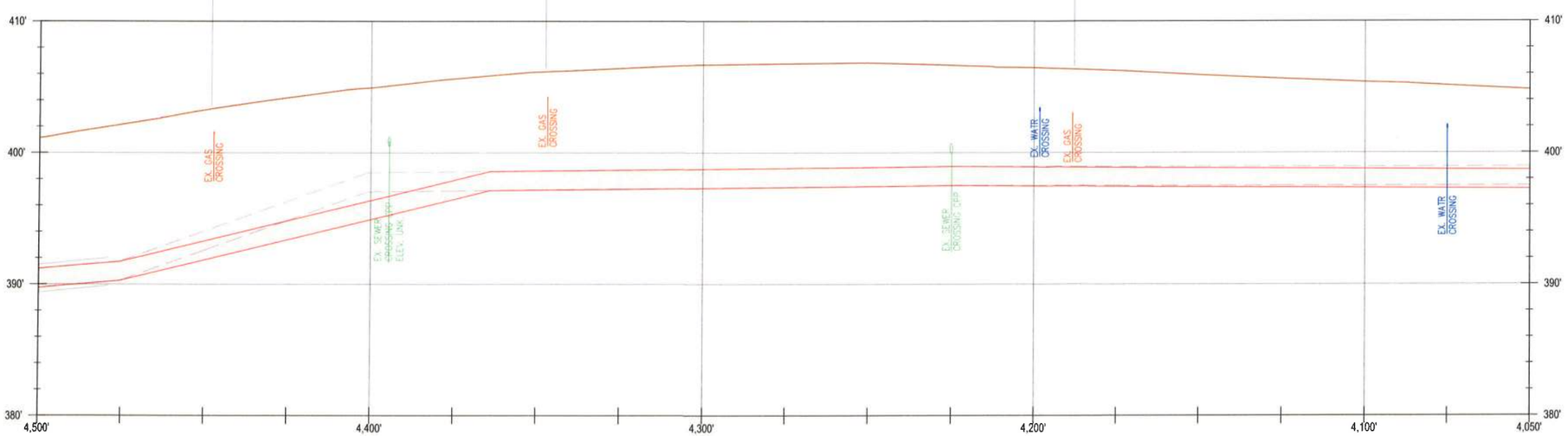
DWG NO.: C11

SHEET NO.: 13 / 24



202ND ST. SW PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS.
ONE LANE OVERLAY REQUIRED FOR 202ND STREET SW.

LOCATION LEGEND

SIGNED: 09/14/15

SIGNED: 09/14/15

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FORCEMAIN PLAN AND PROFILE X

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CV03.DWG

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

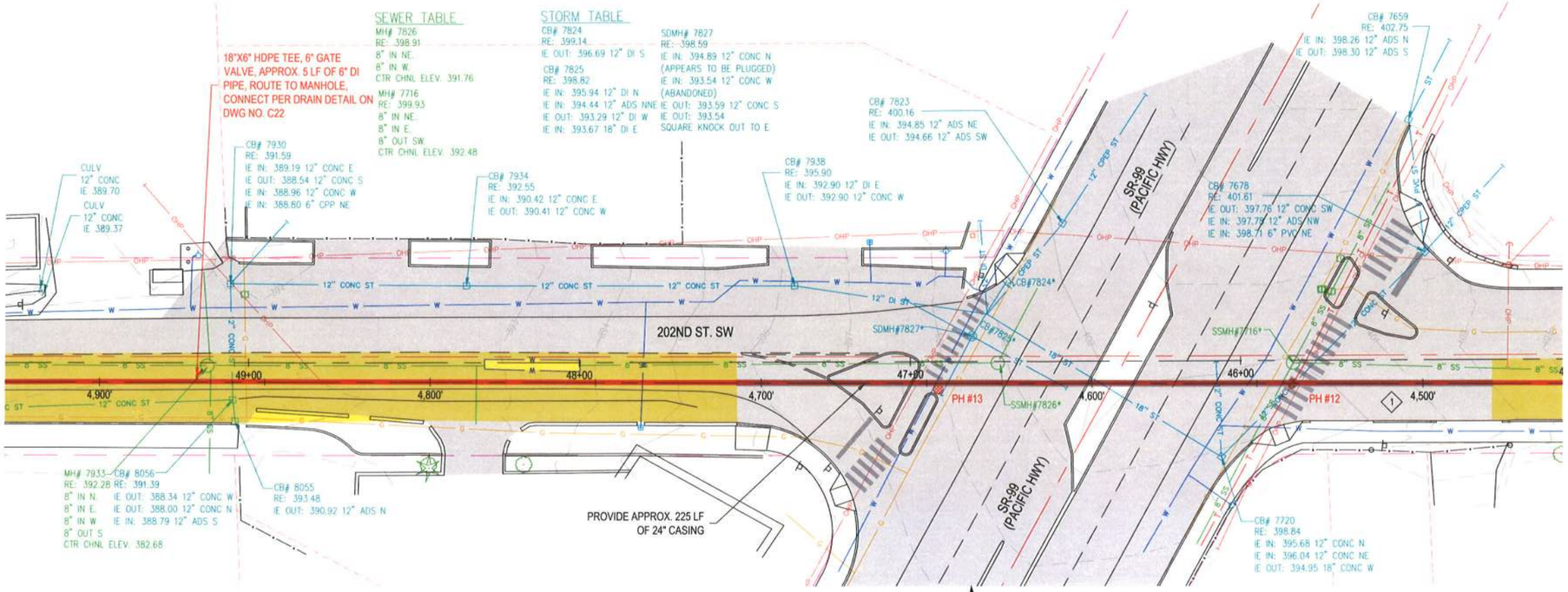
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

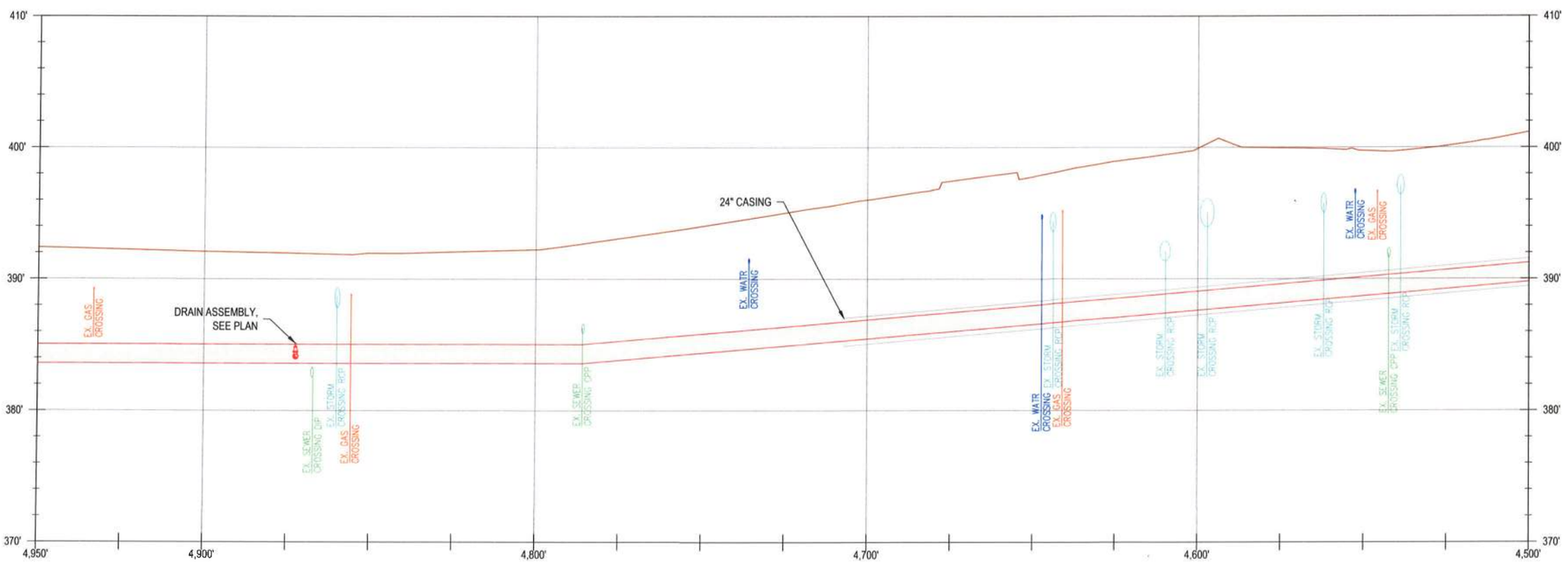
DWG NO.: C12

SHEET NO.: 14 / 24



202ND ST. SW AT SR-99 PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. ONE LANE OVERLAY REQUIRED FOR 202ND STREET SW.

1 THE CONTRACTOR SHALL UTILIZE SUBSURFACE CONSTRUCTION TECHNIQUES, PER WAC 468-34-190, TO CROSS SR-99. OPEN CUT CONSTRUCTION SHALL NOT BE PERMITTED WITHIN THE RIGHT-OF-WAY OF SR-99 WITHOUT WRITTEN VARIANCE APPROVAL FROM THE WSDOT.

LOCATION LEGEND

SIGNED: 09/14/15

SIGNED: 09/14/15

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FORCEMAIN PLAN AND PROFILE XI

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CIV03.DWG

REVISIONS

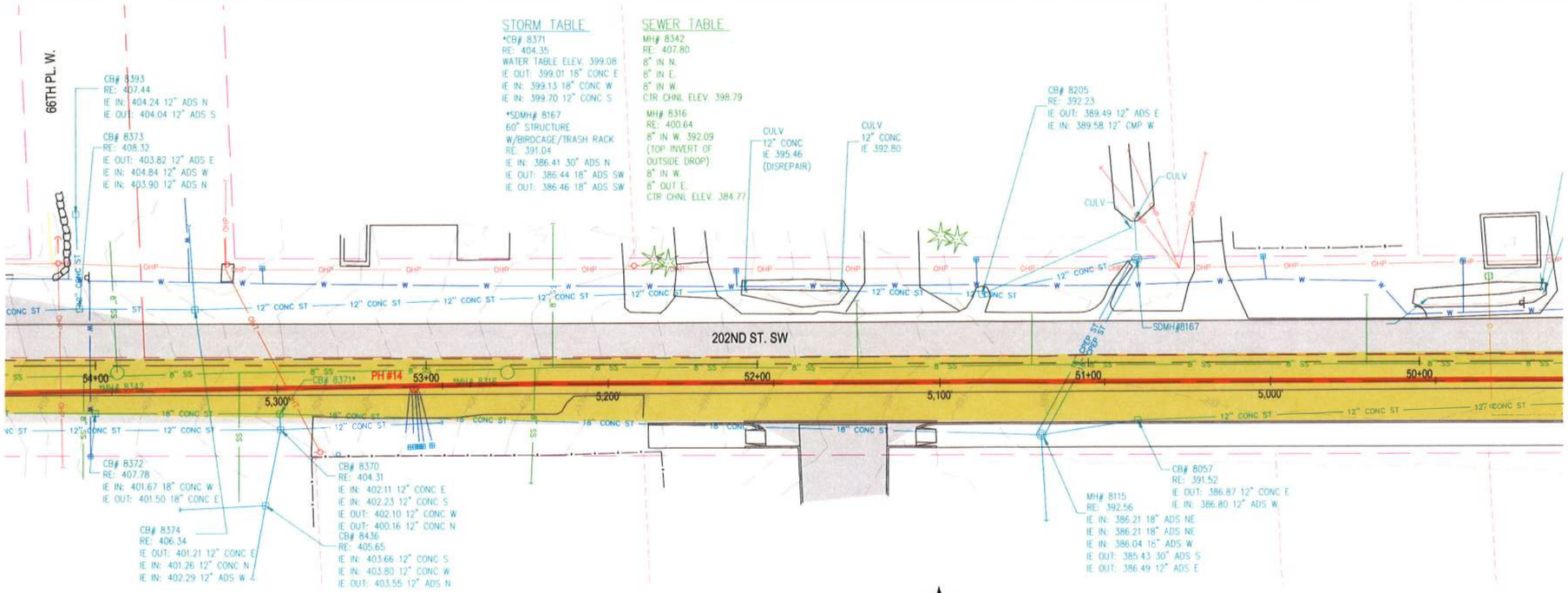
NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN

0' 1' 2'

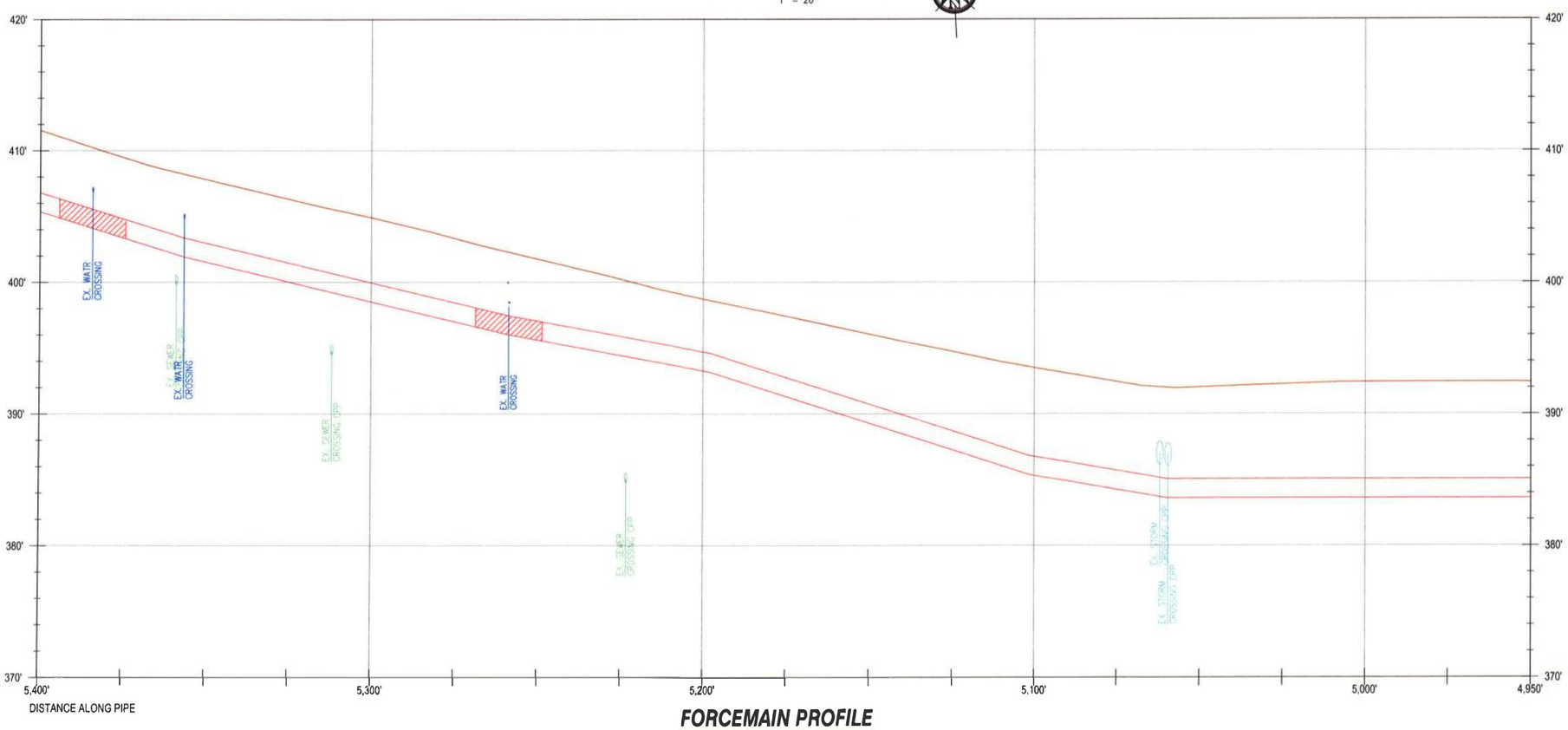
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C13 | SHEET NO.: 15 | 24



202ND ST. SW PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS.
ONE LANE OVERLAY REQUIRED FOR 202ND STREET SW.

LOCATION LEGEND

RH2 ENGINEERING, INC.
www.rh2.com 1.800.720.8052
BOTHELL, WA
22722 29th Drive SE, Suite 210

SIGNED: 09/14/15

SIGNED: 09/14/15

ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE XII

NO.	DATE	DESCRIPTION	BY	REVIEW
2	09/14/15	CONSTRUCTION SET	MRJF	RJF

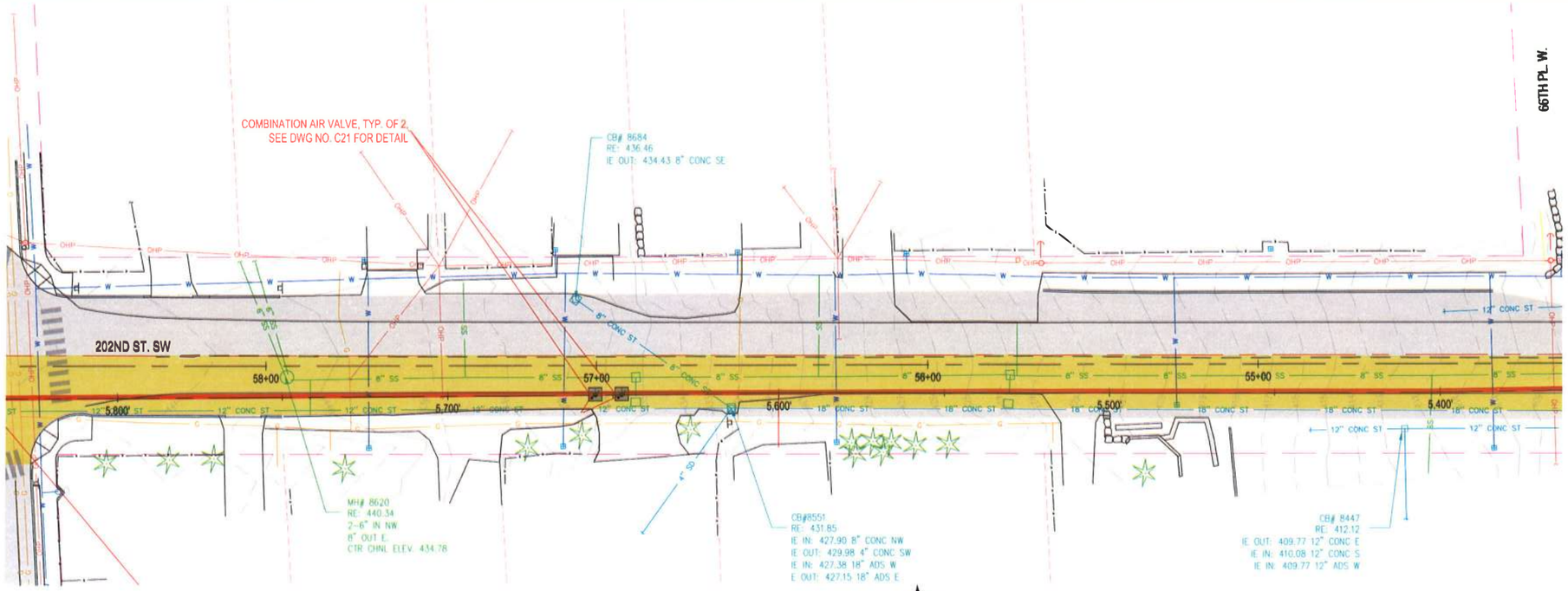
REVISIONS

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CIV03.DWG

SCALE: SHOWN

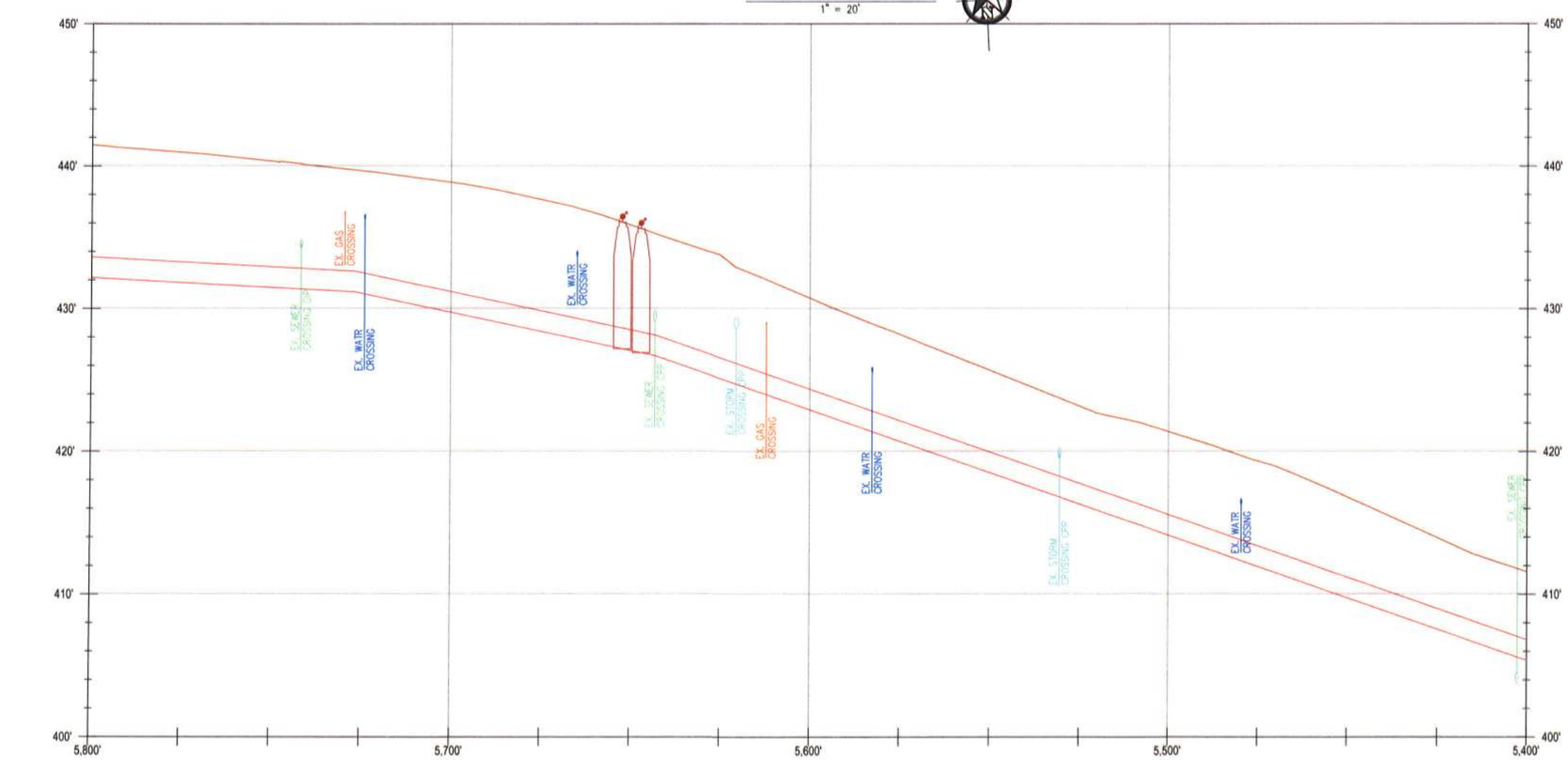
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C14 | SHEET NO.: 16 / 24



202ND ST SW PLAN

1" = 20'



DISTANCE ALONG PIPE

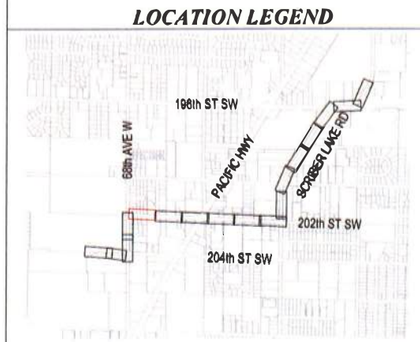
FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS.
ONE LANE OVERLAY REQUIRED FOR 202ND STREET SW.

LOCATION LEGEND



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BOTHELL, WA
22722 29th Drive SE, Suite 210

SIGNED: 09/14/15

SIGNED: 09/14/15

ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE XIII

DESIGNER: MRJF | SHEET DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CIV03.DWG

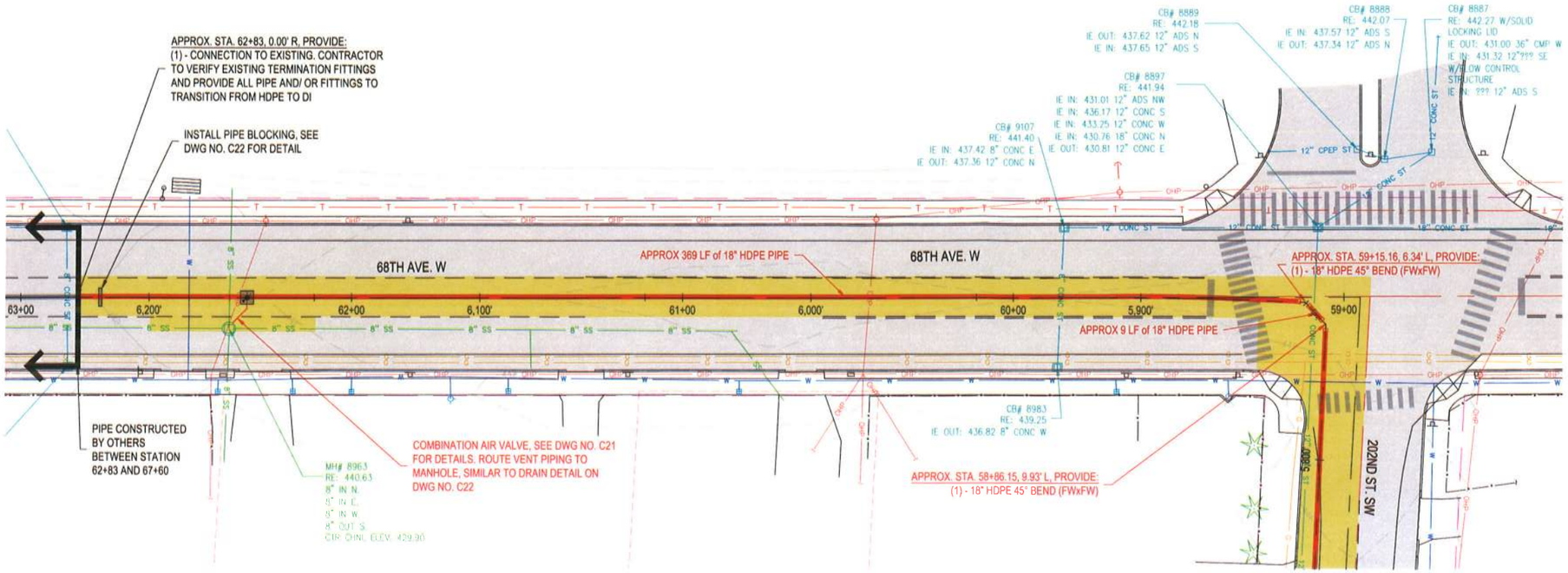
REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN

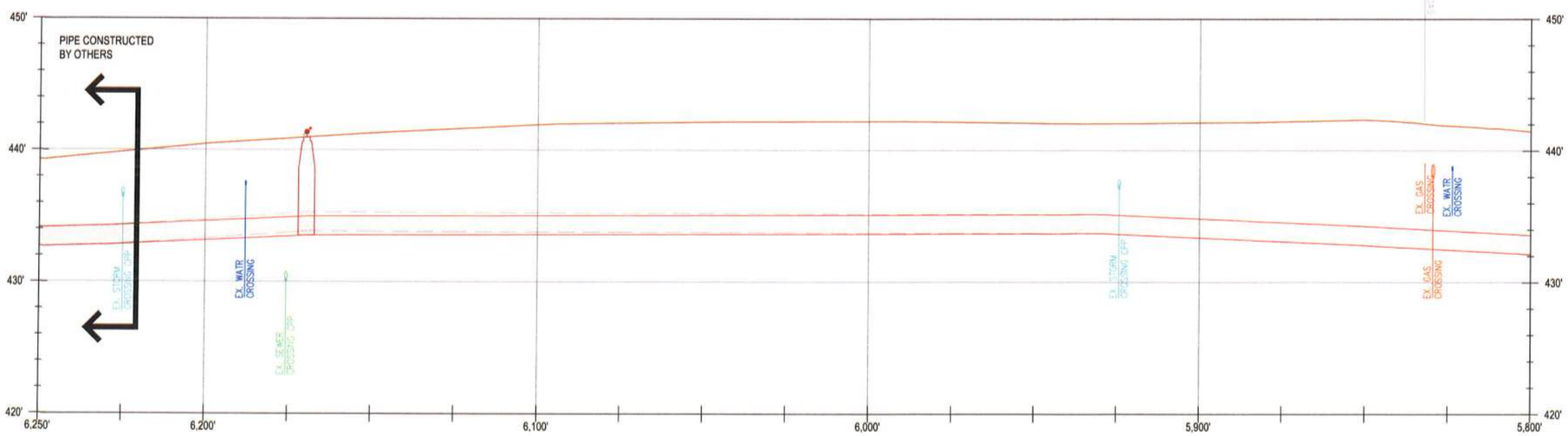
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C15 | SHEET NO.: 17 | 24



202ND ST SW AND 68TH AVE W PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. ONE LANE OVERLAY REQUIRED FOR 202ND STREET SW AND 68TH AVE W.

LOCATION LEGEND

RH2 ENGINEERING, INC.
www.rh2.com 1.800.720.8052
BOTHELL, WA
22722 29th Drive SE, Suite 210

SIGNED: 09/14/15

SIGNED: 09/14/15

ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE XIV

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CIV03.DWG

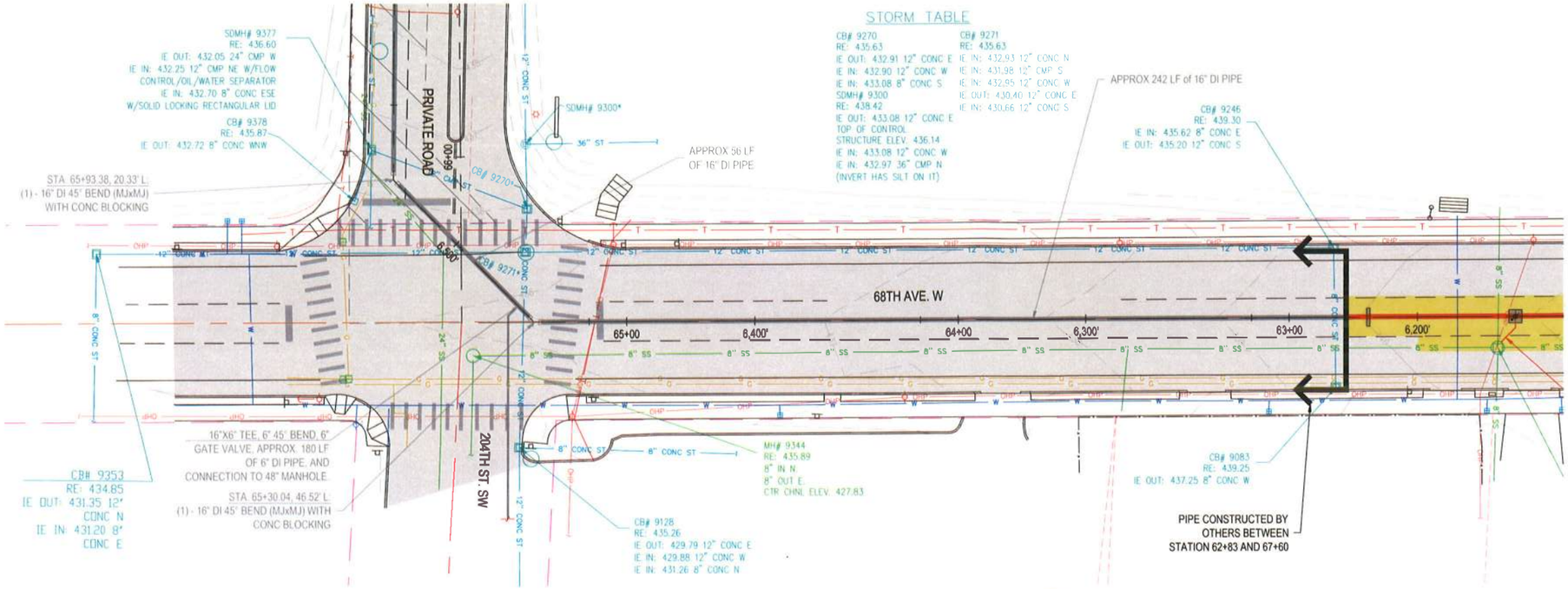
REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
2	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN

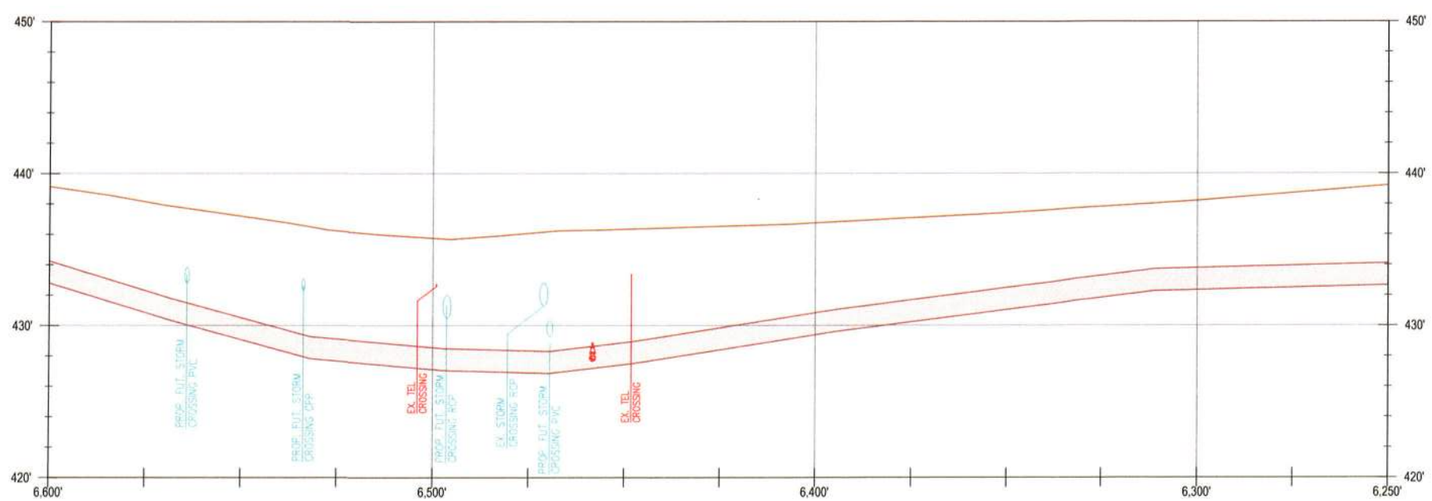
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C16 | SHEET NO.: 18 | 24



68TH AVE W AND EDCC PRIVATE ROAD PLAN

1" = 20'



DISTANCE ALONG PIPE

FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. ONE LANE OVERLAY REQUIRED FOR 68TH AVE W.

PRIOR TO COMMENCING WITH ANY CONSTRUCTION ACTIVITIES WITHIN THE INTERSECTION OF 204TH ST SW AND 68TH AVE W AND CONTINUING ALONG THE EDMONDS COMMUNITY COLLEGE'S (EDCC) PRIVATE ROAD, THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE OWNER.

THE CLOSURE OF EDCC'S PRIVATE ROAD IS ONLY ALLOWED DURING THE COLLEGE SPRING BREAK HOLIDAY. ALL CONSTRUCTION SHALL BE COMPLETED DURING THE TIME FRAME OF THE ROAD CLOSURE.

LOCATION LEGEND

SIGNED: 09/14/15

SIGNED: 09/14/15

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www.rh2.com 1.800.720.8052
BOTHELL, WA
22722 29th Drive SE, Suite 210

ENERGY SAVINGS PERFORMANCE CONTRACTING
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CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE XV

ENGINEER: MRJF | SAVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EDH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CIV03.DWG

REVISIONS

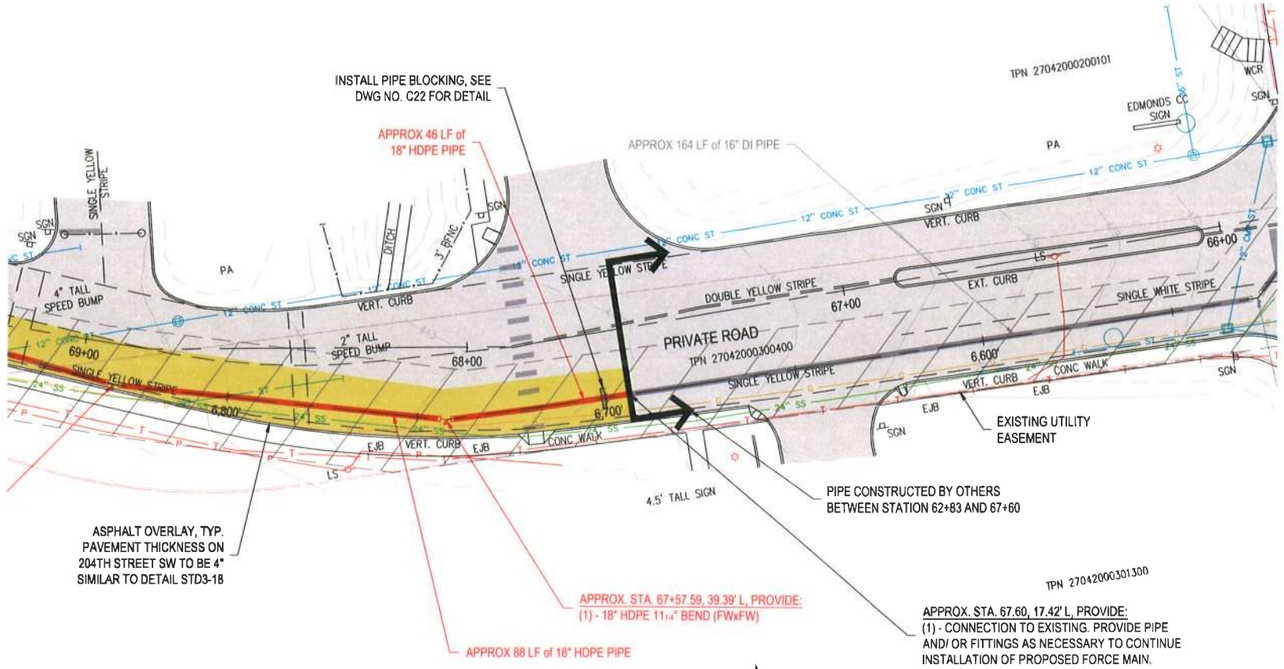
NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN

0' 1' 2'

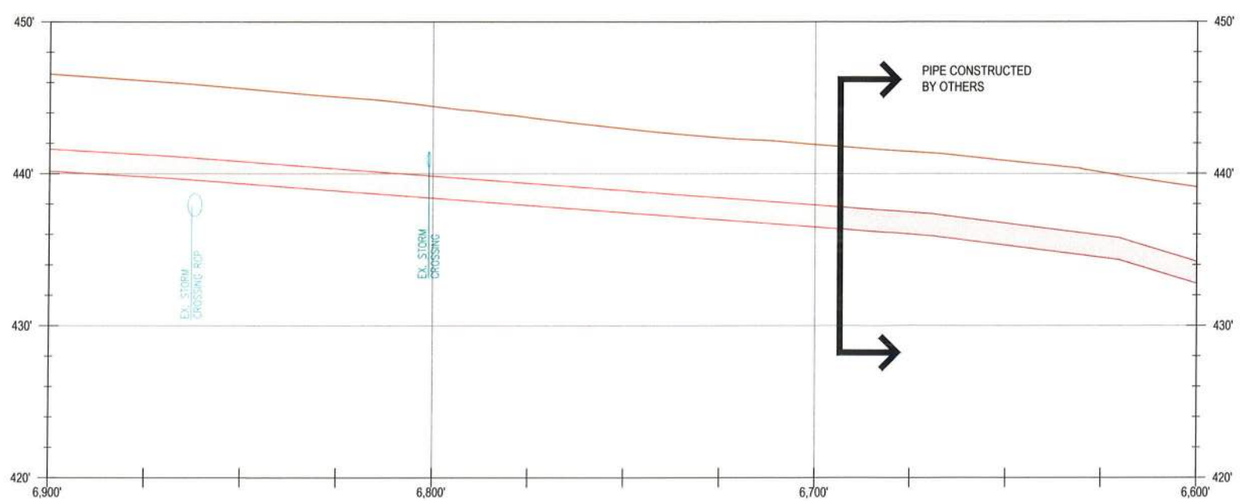
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C17 | SHEET NO.: 19 / 24



EDCC PRIVATE ROAD PLAN

1" = 20'



PROFILE

1" = 20'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. ONE LANE OVERLAY REQUIRED FOR PRIVATE ROAD.

LOCATION LEGEND

SIGNED: 09/14/15

SIGNED: 09/14/15

RH2 ENGINEERING, INC.
Bothell, WA
22722 29th Drive SE, Suite 210

ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE XVI

JOB NO.: 114-005
CLIENT: TRANE
FILENAME: LS16-D-CIV03.DWG

ENGINEER: MRJF
REVIEWED: EDH
SAVE DATE: Sep 14, 2015
PLOT DATE: Sep 14, 2015

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

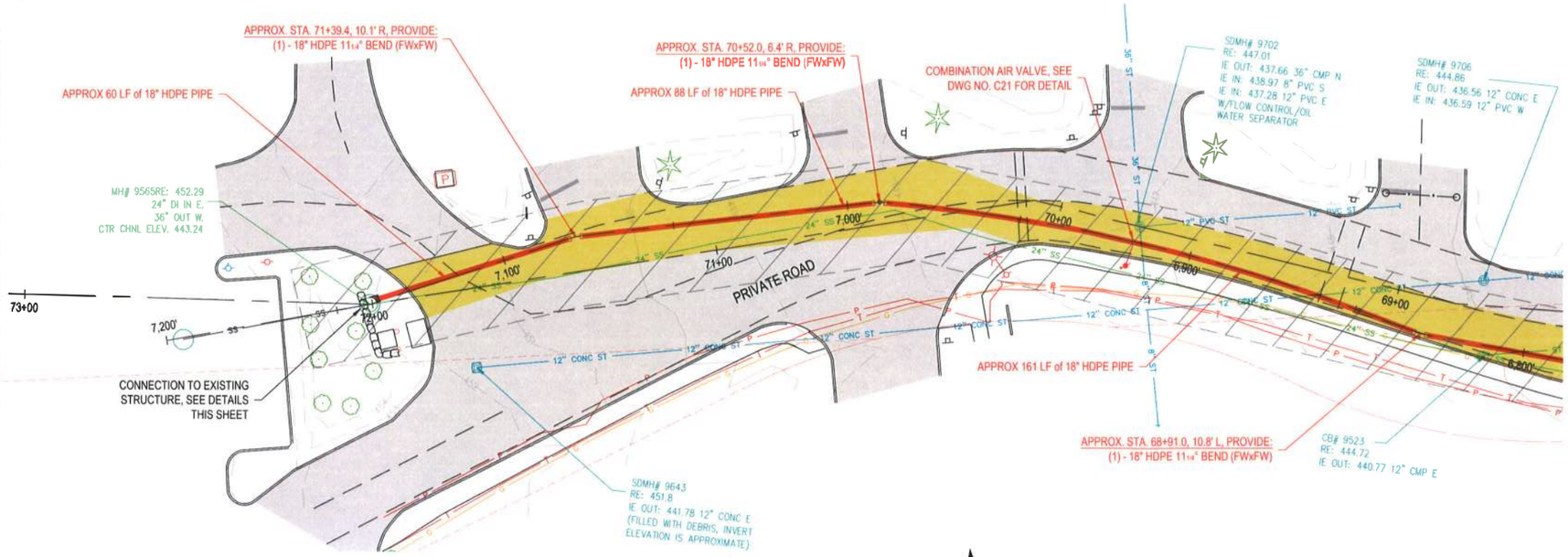
SCALE: SHOWN

0" 1" 2"

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C18

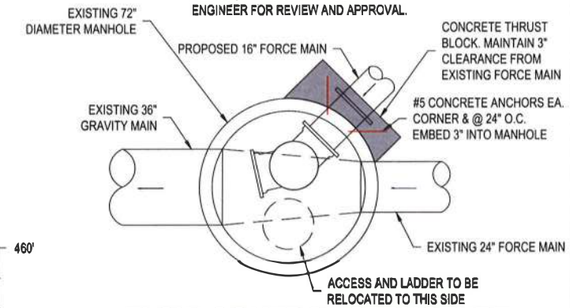
SHEET NO.: 20 / 24



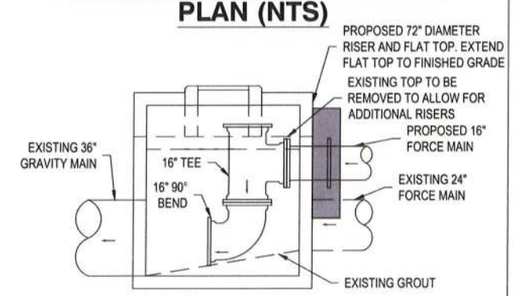
EDCC PRIVATE ROAD PLAN

1" = 20'

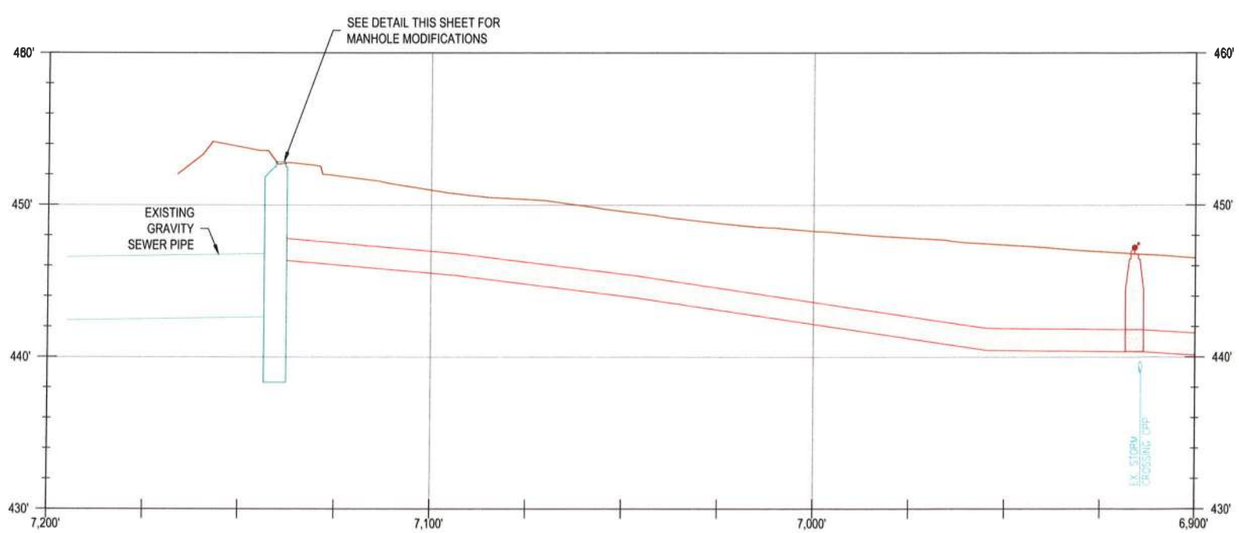
NOTE: CONTRACTOR TO PROVIDE THRUST RESTRAINT AS NECESSARY TO WITHSTAND FORCE MAIN PRESSURE. SUBMIT THRUST RESTRAINT METHOD TO TRANE AND ENGINEER FOR REVIEW AND APPROVAL.



FLOW CONTROL STRUCTURE PLAN (NTS)



FLOW CONTROL STRUCTURE SECTION (NTS)



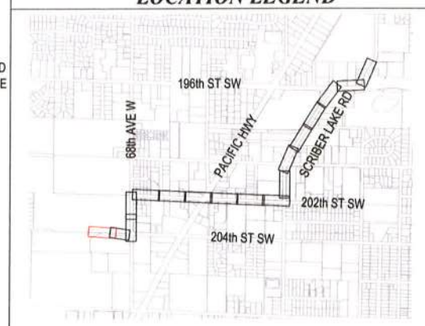
FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. ONE LANE OVERLAY REQUIRED FOR PRIVATE ROAD.

LOCATION LEGEND



RH2 ENGINEERING, INC.
RH2 ENGINEERS SCIENTISTS
RH2 ENGINEERING, INC.
18728 Bothell Way NE
BOTHELL, WA
22722 29th Drive SE, Suite 210

SIGNED: 09/14/15

SIGNED: 09/14/15

ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE XVII

ENGINEER: MRJF | SHEET DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO.: 114.005

REVIEWER: EDW | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CW03.DWG

REVISIONS

NO.	DATE	DESCRIPTION		
	09/14/15	CONSTRUCTION SET	MRJF	RJF
				BF

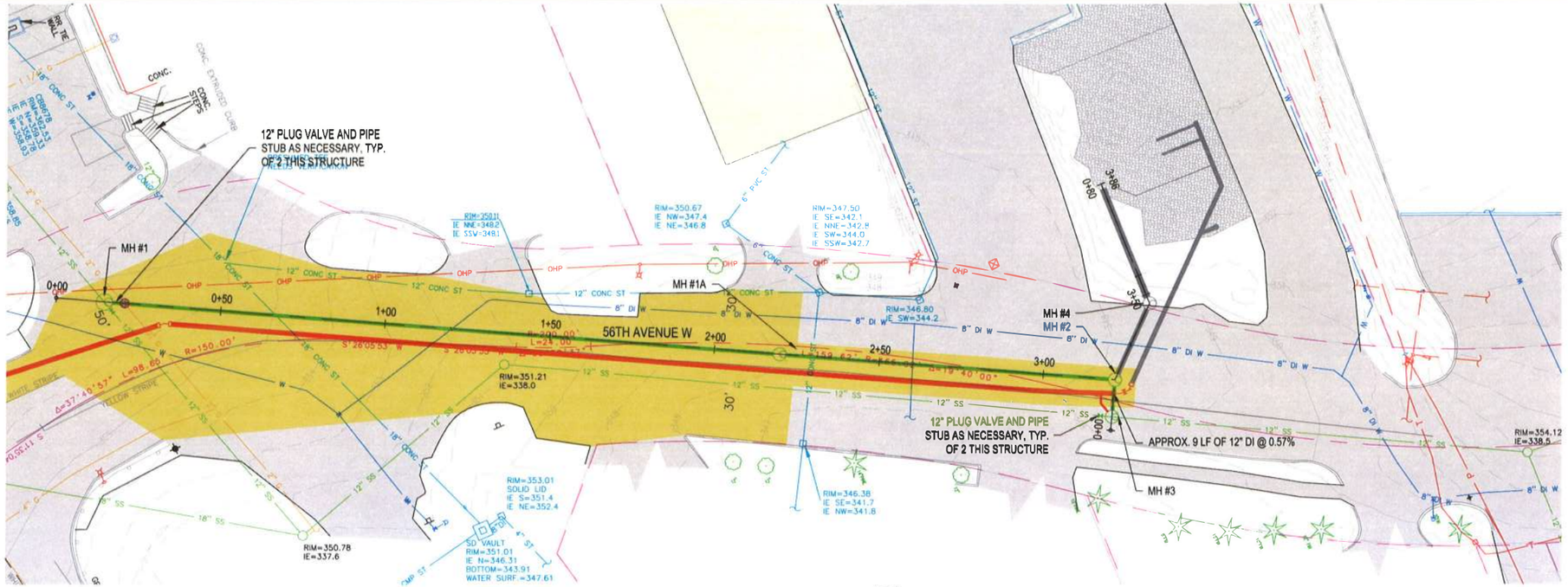
SCALE: SHOWN

0" 1" 2"

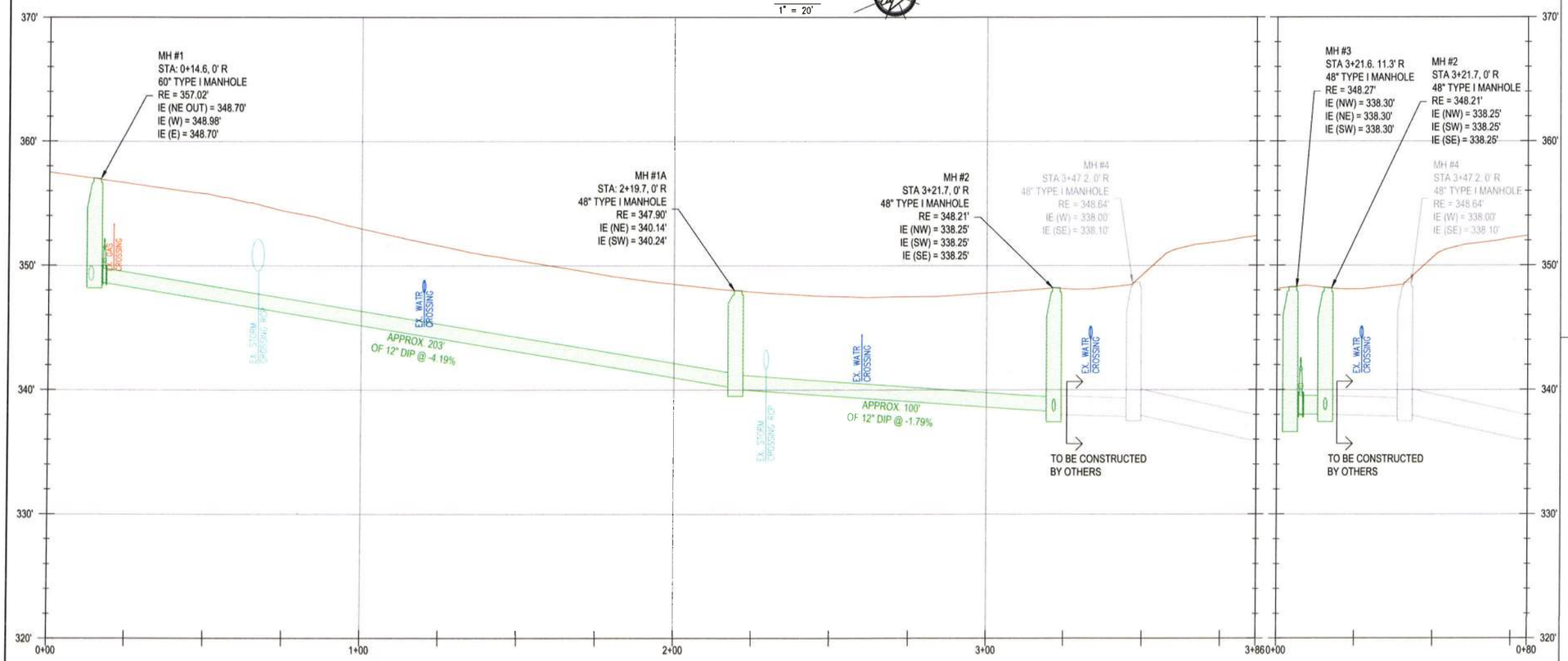
DRAWING IS FULL SCALE WHEN BAR MEASURES 1"

DWG NO.: C19

SHEET NO.: 21 / 24



PLAN
1" = 20'



GRAVITY SEWER PROFILE
1" = 20'

GRAVITY CONNECTION PROFILE
1" = 20'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS.
CONTRACTOR TO FULLY OVERLAY 56TH AVE W.

LOCATION LEGEND

RH2 ENGINEERING, INC.
22722 29th Drive SE, Suite 210
BOTHELL, WA
1.800.720.8052

SIGNED: 09/14/15

SIGNED: 09/14/15

ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

GRAVITY MAIN PLAN AND PROFILE

JOB NO.: 114-005
CLIENT: TRANE
FILENAME: LS16-D-C1V04.DWG

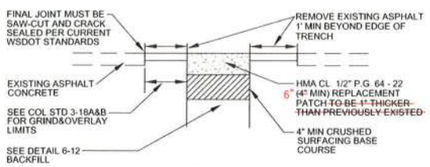
ENGINEER: MRJF | SAVE DATE: Sep 14, 2015
REVIEWED: EDH | PLOT DATE: Sep 14, 2015

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN
0" 1" 2"
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C20
SHEET NO.: 22 / 24



PAVEMENT PATCH

NOTES

1. ALL TRENCHES IN ROADWAY AREAS SHALL BE BACKFILLED AND PATCHED WITH TEMPORARY ASPHALT AT THE END OF EACH WORK DAY, UNLESS PERMISSION IS GRANTED TO DO OTHERWISE BY THE CITY.
2. ALL TEMPORARY PATCHES ON TRENCHES SHALL BE PERMANENTLY PATCHED AS SOON AS POSSIBLE UPON COMPLETION OF WORK WITHIN THE ROADWAY AREA
3. REPLACE AND RESTORE ALL SURFACE IMPROVEMENTS (I.E. TRAFFIC BUTTONS, CURBING, STRIPING) AS DIRECTED BY THE CITY
4. IF THERE ARE MORE THAN 3 PARALLEL OR PERPENDICULAR PATCHES PROPOSED WITHIN 100 LINEAL FEET OF ROADWAY, THE DEVELOPER SHALL BE RESPONSIBLE TO GRIND AND OVERLAY THE ENTIRE AREA TO PUBLIC WORKS STANDARDS.

LYNNWOOD WASHINGTON PUBLIC WORKS

PAVEMENT PATCHING DETAILS

DRAWING NUMBER	STD3-18A
SCALE	NONE
REVISION DATE	07/14
DEPARTMENT	PW

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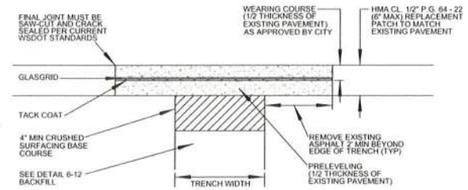

PAVEMENT PATCH

NOTES

1. FOR A 4FT X 4FT PATCH MINIMUM, USE TENSAR GLASGRID 8501 AT BASE OF WEARING COURSE PLACE TACK COAT UNDERNEATH GLASGRID. FOLLOW MANUFACTURE RECOMMENDATIONS.
2. ALL TRENCHES IN ROADWAY AREAS SHALL BE BACKFILLED AND PATCHED WITH TEMPORARY ASPHALT AT THE END OF EACH WORK DAY, UNLESS PERMISSION IS GRANTED TO DO OTHERWISE BY THE CITY.
3. ALL TEMPORARY PATCHES ON TRENCHES SHALL BE PERMANENTLY PATCHED AS SOON AS POSSIBLE UPON COMPLETION OF WORK WITHIN THE ROADWAY AREA
4. REPLACE AND RESTORE ALL SURFACE IMPROVEMENTS (I.E. TRAFFIC BUTTONS, CURBING, STRIPING) AS DIRECTED BY THE CITY.
5. IF THERE ARE MORE THAN 3 PARALLEL OR PERPENDICULAR PATCHES PROPOSED WITHIN 100 LINEAL FEET OF ROADWAY, THE DEVELOPER SHALL BE RESPONSIBLE TO GRIND AND OVERLAY THE ENTIRE AREA TO PUBLIC WORKS STANDARDS.

LYNNWOOD WASHINGTON PUBLIC WORKS

PAVEMENT PATCHING ALTERNATIVE DETAILS

DRAWING NUMBER	STD3-18B
SCALE	NONE
REVISION DATE	07/14
DEPARTMENT	PW

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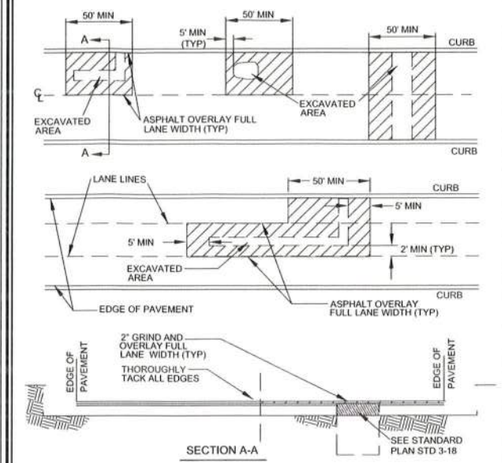

SECTION A-A

NOTES

1. THIS STANDARD APPLIES TO ALL CUTS TO ARTERIAL STREETS AND ALL PAVEMENT LESS THAN 5 YEARS OLD.
2. OVERLAY AREA MAY BE MODIFIED BY CITY ON OLDER PAVEMENT DEPENDING ON CONDITIONS OR SCHEDULED CONSTRUCTION MAINTENANCE.
3. ADJUST ALL UTILITY CASTING TO FINISH GRADE AND RESTORE CHANNELIZATION MARKINGS AND LOOP DETECTORS.

LYNNWOOD WASHINGTON PUBLIC WORKS

ASPHALT OVERLAY FOR ROADWAY TRENCH REPAIR

DRAWING NUMBER	STD3-18C
SCALE	NONE
REVISION DATE	07/14
DEPARTMENT	PW

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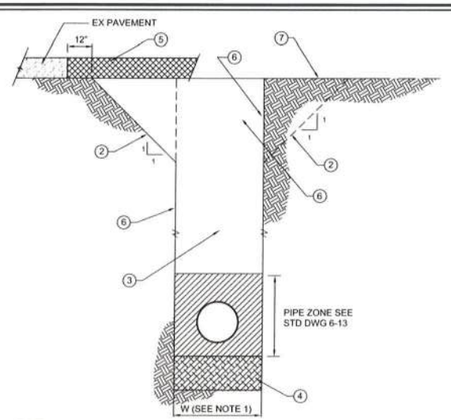

NOTES

1. W = MAXIMUM WIDTH OF TRENCH. FOR PIPES 15" OR LESS IN DIA W=40". FOR PIPES 18" OR GREATER W=1-1/2 x I.D. + 18".
2. ALTERNATE LAID-BACK TRENCH TO MEET O.S.H.A. REQUIREMENTS (NO SLOPES STEEPER THAN 1:1 EXCEPT FOR ROCK).
3. TRENCH BACKFILL MATERIAL SHALL BE 5/8" CSTC OR 1 1/4" CSBC, CDF*, OR APPROVED ALTERNATIVE. SEE 6-17 FOR COMPACTION REQUIREMENTS
4. FOUNDATION GRAVEL IF REQUIRED BY THE ENGINEER TO REPLACE UNSUITABLE MATIERAL. SHALL BE FOUNDATION MATERIAL CLASS A. WSDOT 9-03.17
5. SEE CITY OF LYNNWOOD STANDARD DWG 3-18 AND 3-18A FOR PAVEMENT
6. VERTICAL TRENCH WALLS WITH SHORING TO CONFORM TO O.S.H.A. REGULATIONS.
7. SUBGRADE OR GROUND SURFACE IN NON-PAVED AREAS.

ALL EXCAVATED MATERIAL TO BE LOADED OUT.

*CDF SHALL BE DESIGNED TO HAVE A MINIMUM 28-DAY STRENGTH OF 50PSI AND A MAXIMUM 28-DAY STRENGTH NOT TO EXCEED 300PSI. THE CDF CONSISTENCY SHALL BE FLOWABLE (APPROXIMATE SLUMP 3 TO 10 INCHES)

LYNNWOOD WASHINGTON PUBLIC WORKS

TYPICAL TRENCH SECTION IN RIGHT-OF-WAY

DRAWING NUMBER	STD6-12
SCALE	NONE
REVISION DATE	04/14
DEPARTMENT	PW

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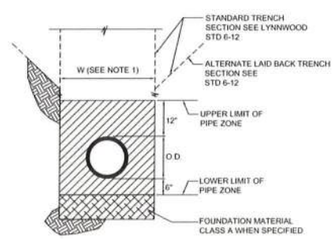

NOTES

1. LIMITS OF TRENCH
   W = MAXIMUM WIDTH OF TRENCH
   FOR PIPES 15" OR LESS IN DIAMETER
   W= 40" MINIMUM
   FOR PIPES 18" OR GREATER IN DIAMETER
   W= 1 1/2 X I.D. + 18", 30" MIN.
2. GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL CONSIST OF CRUSHED, PROCESSED, OR NATURALLY OCCURRING GRANULAR MATERIAL. IT SHALL BE ESSENTIALLY FREE FROM VARIOUS TYPES OF WOOD WASTE OR OTHER EXTRANEOUS OR OBJECTIONABLE MATERIALS. IT SHALL HAVE SUCH CHARACTERISTICS OF SIZE AND SHAPE THAT IT WILL COMPACT READILY PER WSDOT 9-03.12 (3).
3. PEA GRAVEL, SAND, ½" CHIPS, CDF AND ⅝" CSTC MAY BE REQUIRED AT THE DISCRETION OF THE PUBLIC WORKS INSPECTOR.
4. ALL FOUNDATION MATERIAL, IF REQUIRED, SHALL BE FOUNDATION MATERIAL CLASS "A" PER WSDOT SPEC 9-03.17
   REQUIRED COMPACTION PROCEDURES SHALL COMPLY WITH WSDOT SPEC 2-06. SEE LYNNWOOD STD. 6-17 FOR ADDITIONAL INFORMATION.

LYNNWOOD WASHINGTON PUBLIC WORKS

BEDDING FOR PIPE IN TRENCHES

DRAWING NUMBER	STD6-13
SCALE	NONE
REVISION DATE	03/14
DEPARTMENT	PW

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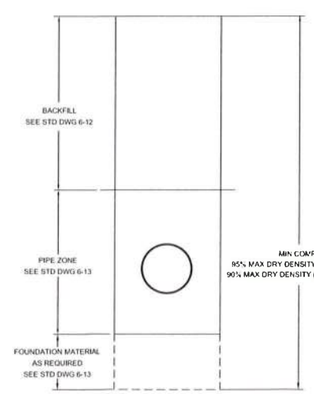

SECTION

NOTES:

1. ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12 INCHES BEFORE COMPACTION UNLESS AUTHORIZED BY THE ENGINEER DUE TO THE CHARACTER OF THE MATERIAL AND THE COMPACTING EQUIPMENT.
2. MECHANICAL COMPACTION OF BACKFILL MATERIAL SHALL NOT BEGIN UNTIL THE DEPTH OF COMPACTED BACKFILL MATERIAL IS 2 FEET ABOVE THE TOP OF PIPE.
3. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO THE REQUIRED DENSITY PRIOR TO PLACING SUCCEEDING LIFTS OF BACKFILL MATERIAL.
4. COMPACTION TESTS SHALL BE AS REQUIRED BY THE CITY ENGINEER, BUT IN NO CASE LESS THAN 2 TESTS EVERY 200 FEET OF TRENCH (ONE AT SUBGRADE AND ONE AT 50% OF TRENCH DEPTH)

LYNNWOOD WASHINGTON PUBLIC WORKS

TYPICAL TRENCH COMPACTION

DRAWING NUMBER	STD6-17
SCALE	NONE
REVISION DATE	01/14
DEPARTMENT	PW

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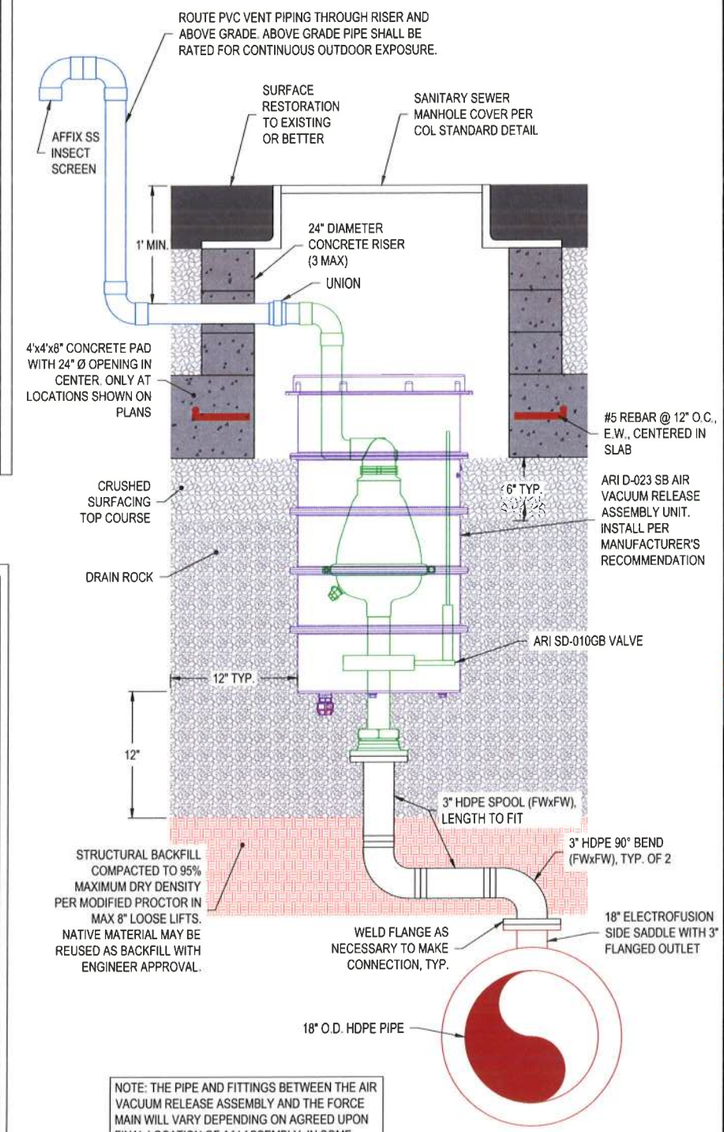
NOTE: AIR VACUUM VALVE ASSEMBLY LOCATIONS PROVIDED ARE APPROXIMATE. SLIGHT ADJUSTMENTS MAY BE NECESSARY TO PROVIDE ADEQUATE SPACING FOR GRADE RINGS AND MANHOLE COVERS.



NOTE: THE PIPE AND FITTINGS BETWEEN THE AIR VACUUM RELEASE ASSEMBLY AND THE FORCE MAIN WILL VARY DEPENDING ON AGREED UPON FINAL LOCATION OF A/V ASSEMBLY. IN SOME INSTANCES, PIPE AND FITTINGS MAY NOT BE REQUIRED

COMBINATION AIR VALVE DETAIL

NTS

SIGNED: 09/14/15

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Bothell, WA
22722 29th Drive SE, Suite 210

ENERGY SAVINGS PERFORMANCE CONTRACTING
INVESTMENT GRADE AUDIT
CITY OF LYNNWOOD LIFT STATION 16
AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

DETAILS

ENGINEER: MRJF	SAVE DATE: Sep 14, 2015
REVIEWED: EH	PLOT DATE: Sep 15, 2015
CLIENT: TRANE	JOB NO: 114-005
FILENAME: LS16-D-C1V07.DWG	

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN

0" 1" 2"

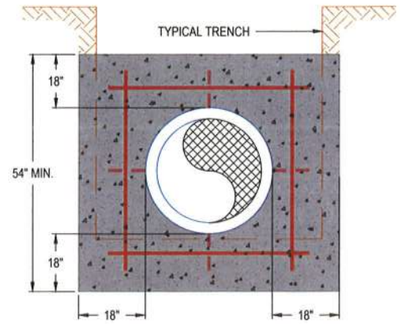
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C21

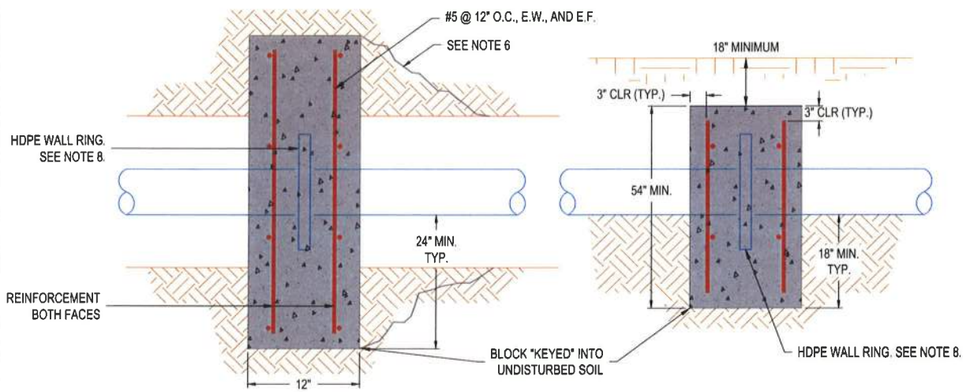
SHEET NO.: 23 / 24

NOTES:

1. DETAIL SHALL BE USED AT ALL STRUCTURE PENETRATIONS WHERE HDPE PIPE IS USED AND AS SPECIFIED ON THE PLANS.
2. CONCRETE BLOCK SHALL BE PER SECTION 7-09.3(21) OF THE WSDOT STANDARD SPECIFICATIONS.
3. MAINTAIN 18" MINIMUM COVER OVER THE TOP OF BLOCK.
4. BOTTOM OF BLOCK IS TO BE ON UNDISTURBED SOIL.
5. TRENCH TO BE BACKFILLED TO THE FULL DEPTH OF THE BLOCK WITH CRUSHED ROCK COMPACTED TO 95% DENSITY ON ALL SIDES OF BLOCK AND TO A MINIMUM DISTANCE OF 4' IN FRONT OF AND BEHIND PROPOSED BLOCK.
6. FOR SOIL CONDITIONS NOT SHOWN, BLOCK IS TO BE DESIGNED BY THE ENGINEER.
7. IF BLOCK CANNOT BE KEYED INTO UNDISTURBED SOIL TO THE SATISFACTION OF THE ENGINEER:
   a) THE BLOCK LENGTH SHALL BE EXTENDED TO PROVIDE AN ADEQUATE KEY OR
   b) CDF SHALL BE USED TO FILL BACK TO NATIVE SOIL OR
   c) THE TRENCH SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY A MINIMUM DISTANCE OF 15 FEET IN FRONT OF THE BLOCK TO THE SATISFACTION OF THE ENGINEER.
8. HDPE WALL RING MUST BE SIZED TO RESIST PULL-OUT FORCE OF HDPE PIPE DUE TO THERMAL EXPANSION AND PIPELINE CHARGING PER MANUFACTURER'S RECOMMENDATION.



GRAVITY MAINS

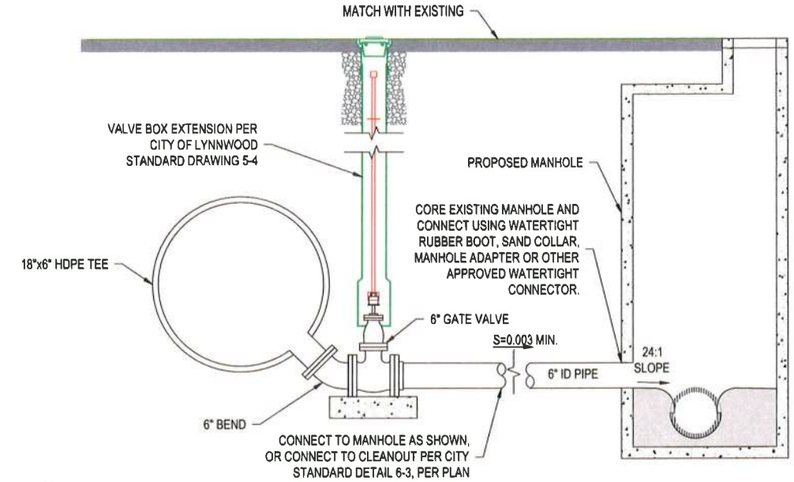


PLAN ELEVATION

PIPE BLOCKING

NOT TO SCALE

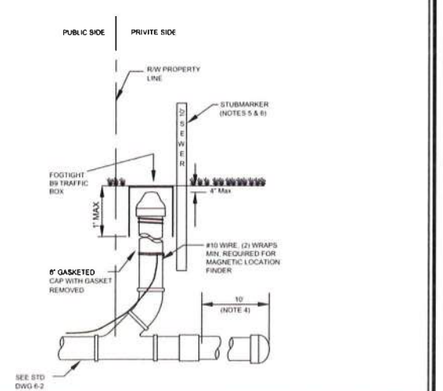
E



FORCEMAIN DRAIN DETAIL

NOT TO SCALE

F



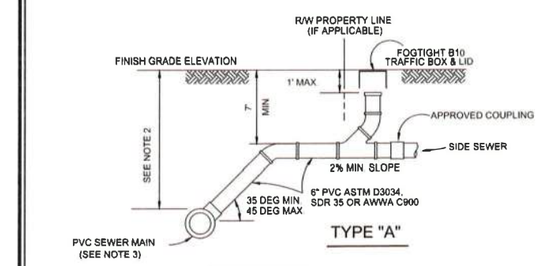
NOTES

1. CLEAN-OUT PIPE AND FITTINGS SHALL BE PVC WITH GASKET FITTINGS. NO GLUE JOINTS ALLOWED
2. A SANITARY TEE OR SWEEP MAY BE INSTALLED IN LIEU OF A WYE AS SHOWN. STRAIGHT TEES ARE NOT ACCEPTABLE
3. FOR NEW PLATS THE VERTICAL RISER PORTION OF THE CLEAN-OUT WILL BE CONSTRUCTED AT TIME OF CONNECTION TO BUILDING TO MINIMIZE DAMAGE. THE 6" WYE AND 6 PVC PIPE W/GASKETED CAPS WILL BE INSTALLED PRIOR TO BUILDING CONNECTION
4. SEWER STUB WILL BE EXTENDED 10' BEYOND PROPERTY LINE TO PREVENT DAMAGE TO CLEAN-OUT AND MINIMIZE CONFLICTS WITH OTHER UTILITIES WHEN SERVICE TO BUILDING IS ACCOMPLISHED
5. A PRESSURE TREATED 2"x4" OR CONCRETE STUBMARKER SHALL EXTEND DOWN TO A MIN OF 24" BELOW GROUND. A MIN OF 36" SHALL EXTEND ABOVE GROUND
6. THE STUBMARKER SHALL BE PAINTED WITH WHITE TRAFFIC PAINT AND THE WORD "SEWER" AND THE DEPTH IN FEET FROM GROUND TO SEWER STUB INVERT SHALL BE PAINTED ON THE MARKER WITH 3" HIGH BLACK PAINTED LETTERS

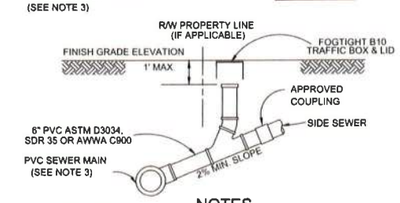
LYNNWOOD WASHINGTON PUBLIC WORKS

SEWER CLEANOUT

DRAWING NUMBER	STD6-3
SCALE	NONE
REVISION DATE	03/06
DEPARTMENT	PW



TYPE "A"



TYPE "B"

NOTES

1. PVC SIDE SEWER CONNECTIONS TO NEW MAINS SHALL BE FACTORY TEES
2. TYPE A SHALL BE USED ONLY WHEN MAIN DEPTH EXCEEDS 15 FEET AND AS APPROVED BY THE CITY
3. CLEAN-OUTS IN PAVED AREAS REQUIRE A CAST IRON LOCKING RING AND COVER. SEE STANDARD PLAN 6-3 FOR CLEAN-OUTS
4. SIDE SEWERS SHALL BE TESTED IN ACCORDANCE WITH THE CURRENT WSDOT STANDARD SPECIFICATIONS

LYNNWOOD WASHINGTON PUBLIC WORKS

TYPICAL SIDE SEWER CONNECTION

DRAWING NUMBER	STD6-2
SCALE	NONE
REVISION DATE	04/13
DEPARTMENT	PW

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LYNNWOOD WASHINGTON

DETAILS II

ENGINEER: MRJF | SIVE DATE: Sep 14, 2015 | CLIENT: TRANE | JOB NO. 114.005
REVIEWED: EH | PLOT DATE: Sep 14, 2015 | FILENAME: LS16-D-CV08.DWG

REVISIONS

NO	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

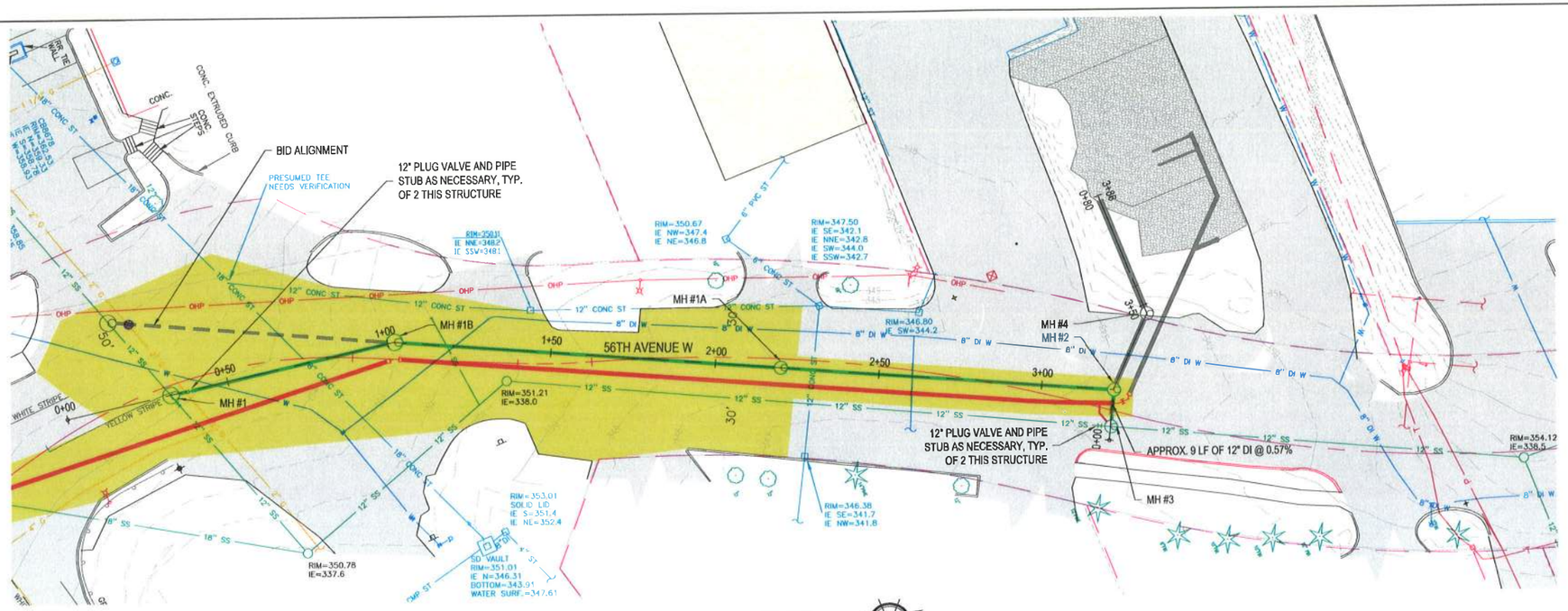
SCALE: SHOWN

0" 1" 2"

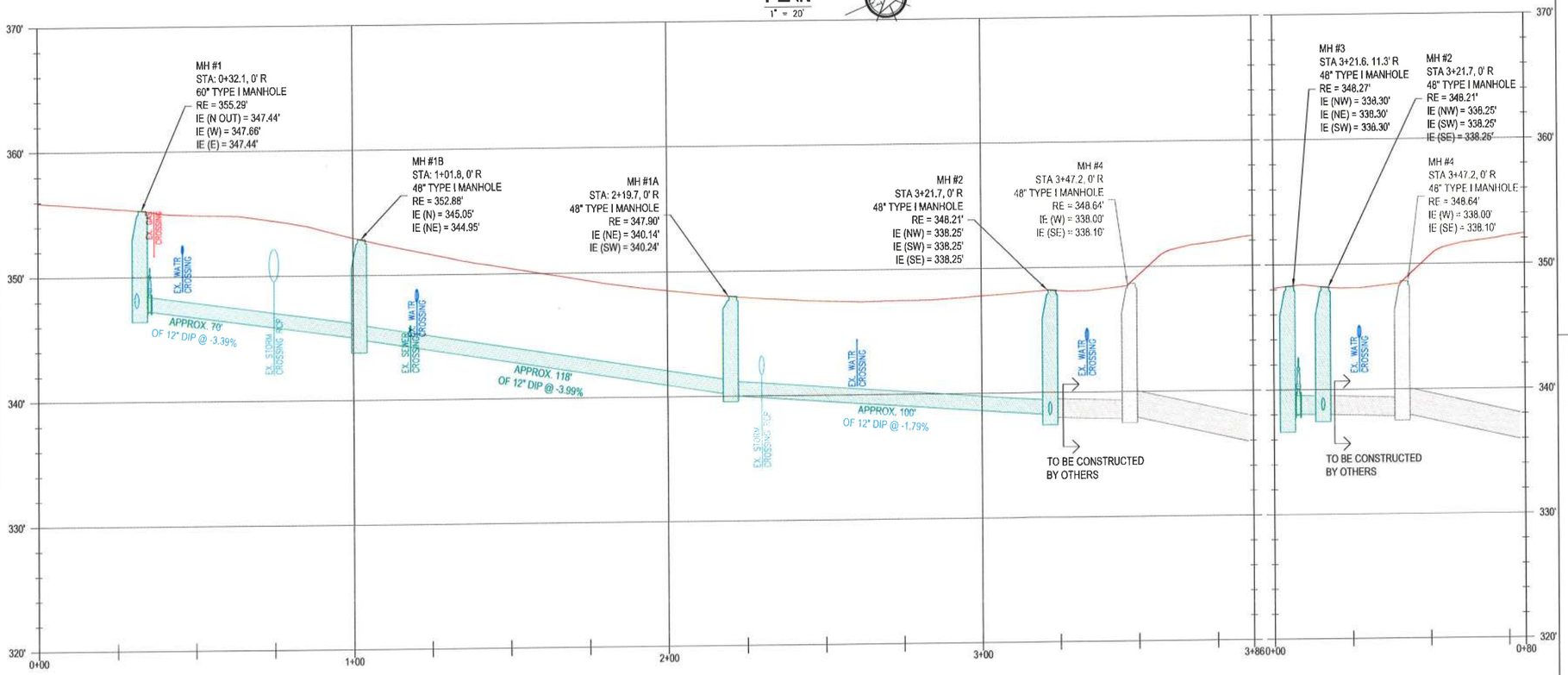
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C22

SHEET NO.: 24 / 24



PLAN
1" = 20'



GRAVITY SEWER PROFILE
1" = 20'

GRAVITY CONNECTION PROFILE
1" = 20'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. CONTRACTOR TO FULLY OVERLAY 56TH AVE W.

LOCATION LEGEND

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CITY OF LYNNWOOD LIFT STATION 16 AND FORCEMAIN IMPROVEMENTS

LYNNWOOD WASHINGTON

GRAVITY MAIN PLAN AND PROFILE

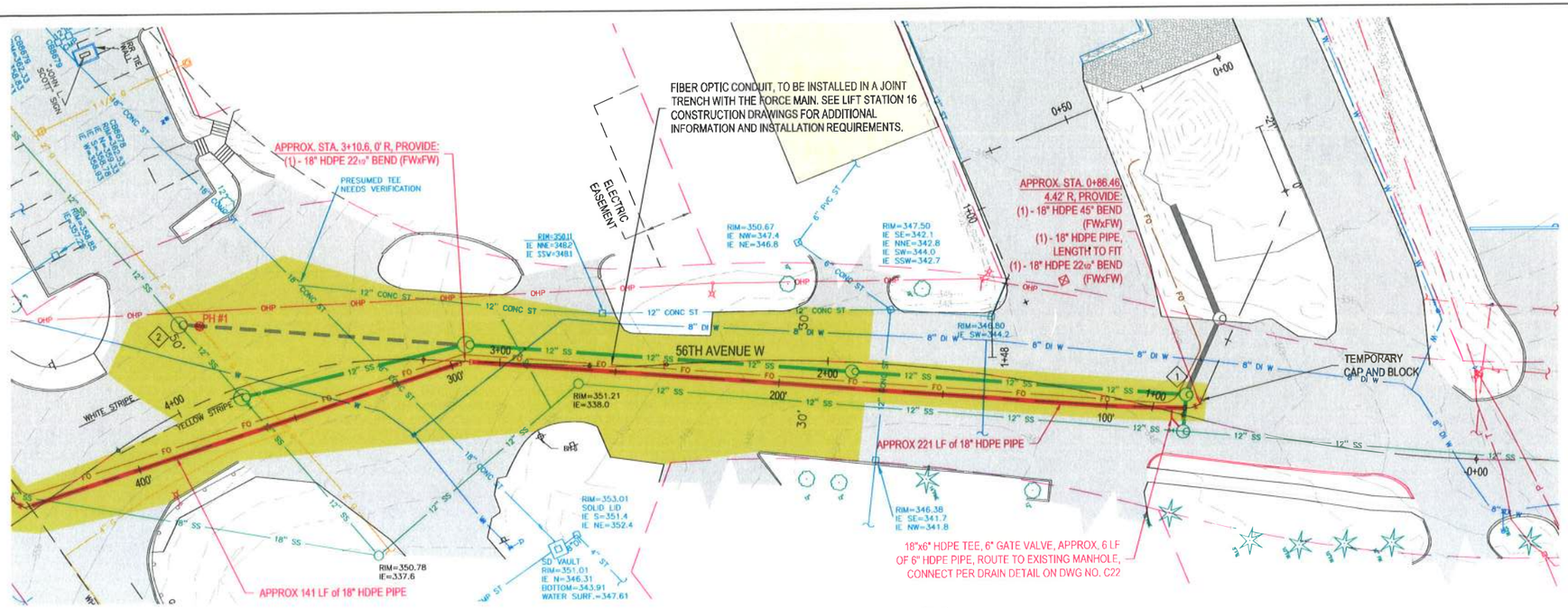
NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

REVISIONS

ENGINEER: MRJF | SAVE DATE: Oct 7, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EDH | PLOT DATE: Oct 7, 2015 | FILENAME: LS16-D-CIV04.DWG

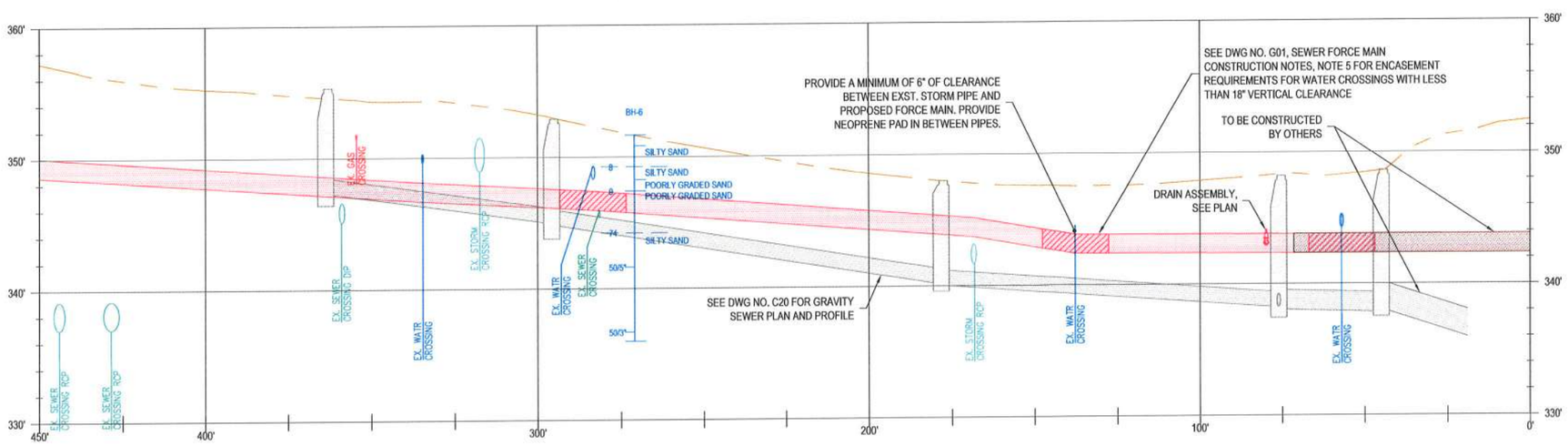
SCALE: SHOWN
0' 1' 2'
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C20 | SHEET NO.: 22 | 24



56TH AVE W PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. CONTRACTOR TO FULLY OVERLAY 56TH AVE W.

1. THE GRAVITY MAIN AND FORCE MAIN WILL BE EXTENDED TOWARDS THE PROPOSED LIFT STATION BY OTHER CONTRACTOR. CONTRACTOR SHALL CAP AND PROVIDE TEMPORARY BLOCKING ON THE FORCE MAIN PIPE.
2. DO NOT REDIRECT SEWAGE FLOW UPON COMPLETION OF GRAVITY MAIN CONSTRUCTION.

LOCATION LEGEND

SIGNED: 09/14/15

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LYNNWOOD WASHINGTON

FORCEMAIN AND GRAVITY MAIN PLAN AND PROFILE

NO.	DATE	DESCRIPTION	BY	REVIEW
1	09/14/15	CONSTRUCTION SET	MRJF	RJF

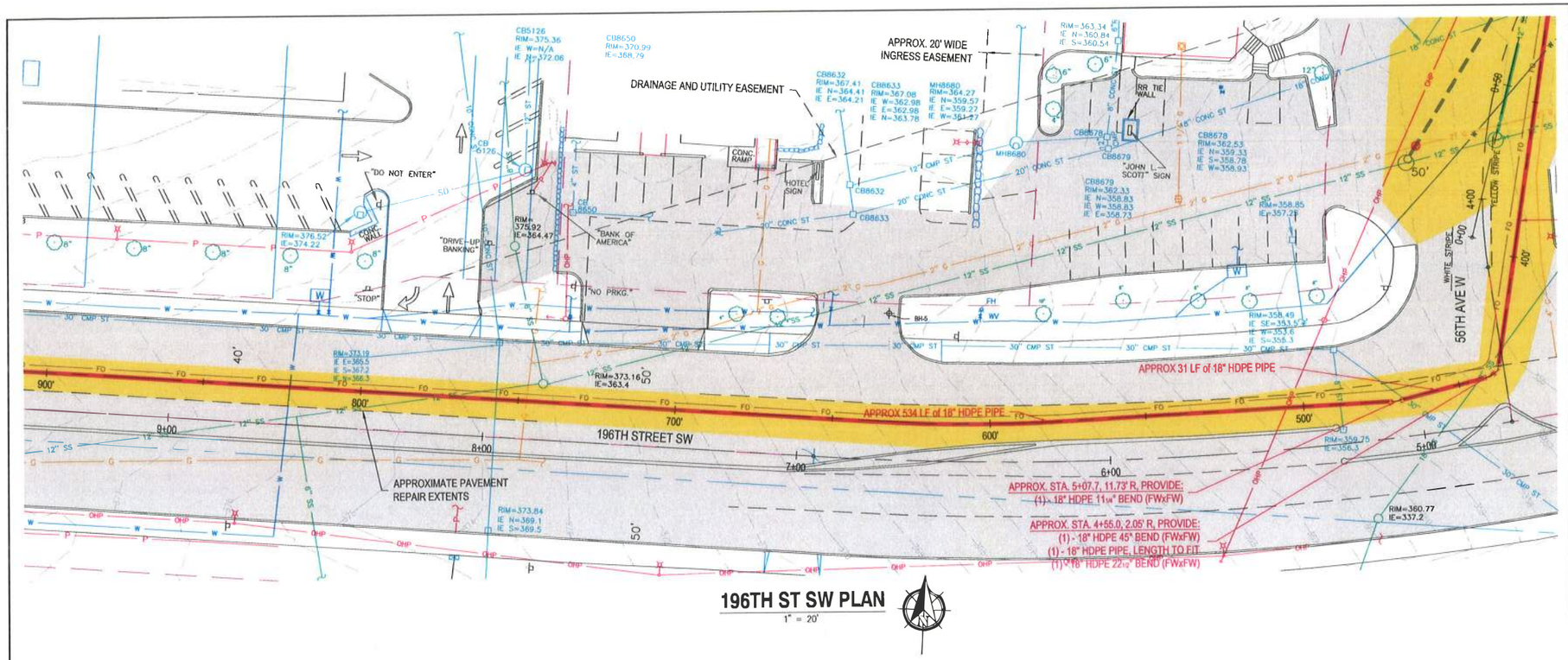
REVISIONS

ENGINEER: MRJF | SAVE DATE: Oct 7, 2015 | CLIENT: TRANE | JOB NO.: 114-005
REVIEWED: EH | PLOT DATE: Oct 7, 2015 | FILENAME: LS16-D-CIV03.DWG

SCALE: SHOWN

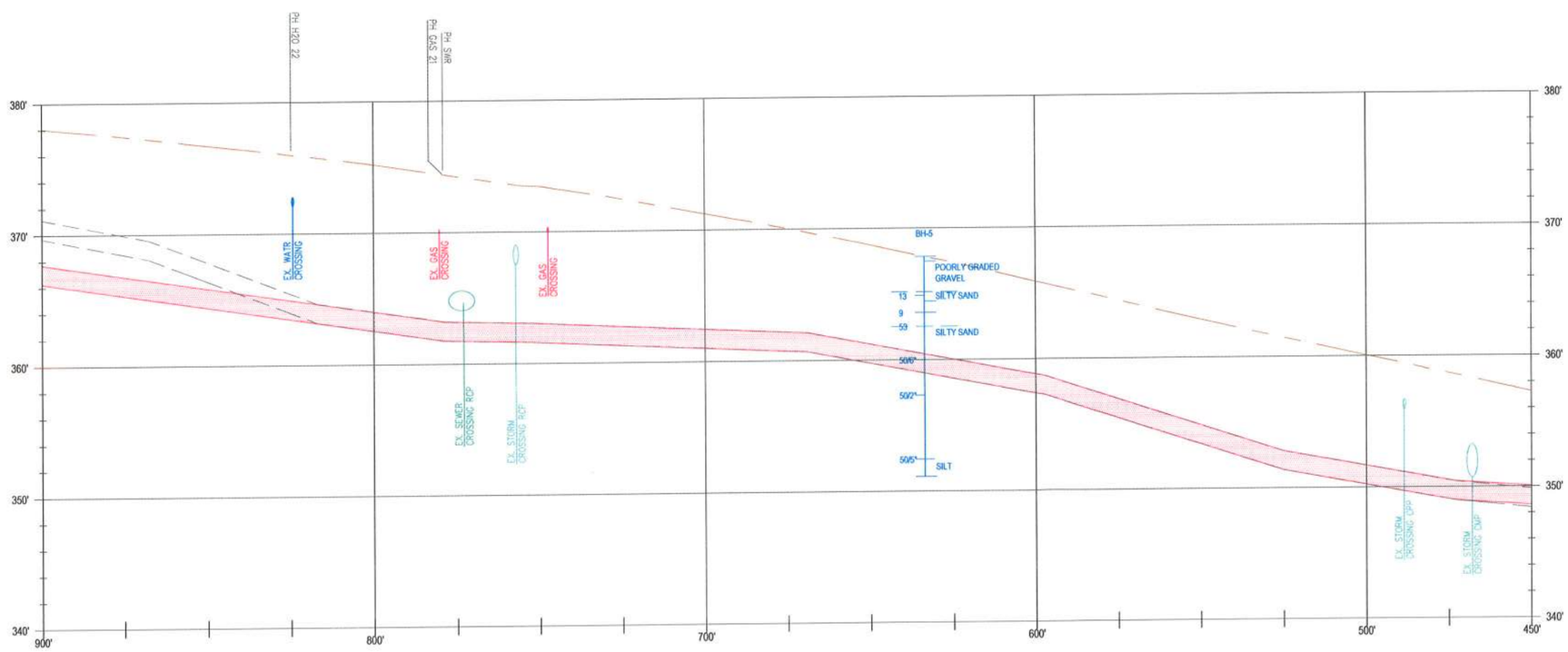
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C03 | SHEET NO.: 5 | 24



196TH ST SW PLAN

1" = 20'



FORCEMAIN PROFILE

H: 1" = 20' V: 1" = 5'

NOTES/DETAILS

SEE DETAILS ON DWG NO. C21 FOR ROAD RESTORATION DETAILS. CONTRACTOR TO FULLY OVERLAY 56TH AVE W. ONE LANE OVERLAY REQUIRED FOR 196TH STREET W.

LOCATION LEGEND

SIGNED: 09/14/15

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LYNNWOOD WASHINGTON

FORCEMAIN PLAN AND PROFILE II

JOB NO.: 114-005

CLIENT: TRANE

FILENAME: LS16-D-C21V03.DWG

ENGINEER: MRJF | SAVE DATE: Oct 7, 2015

REVIEWED: EDH | PLOT DATE: Oct 7, 2015

REVISIONS

NO.	DATE	DESCRIPTION	BY	REVIEW
A	09/14/15	CONSTRUCTION SET	MRJF	RJF

SCALE: SHOWN

0" 1" 2"

DRAWINGS IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: C04

SHEET NO.: 6 / 24