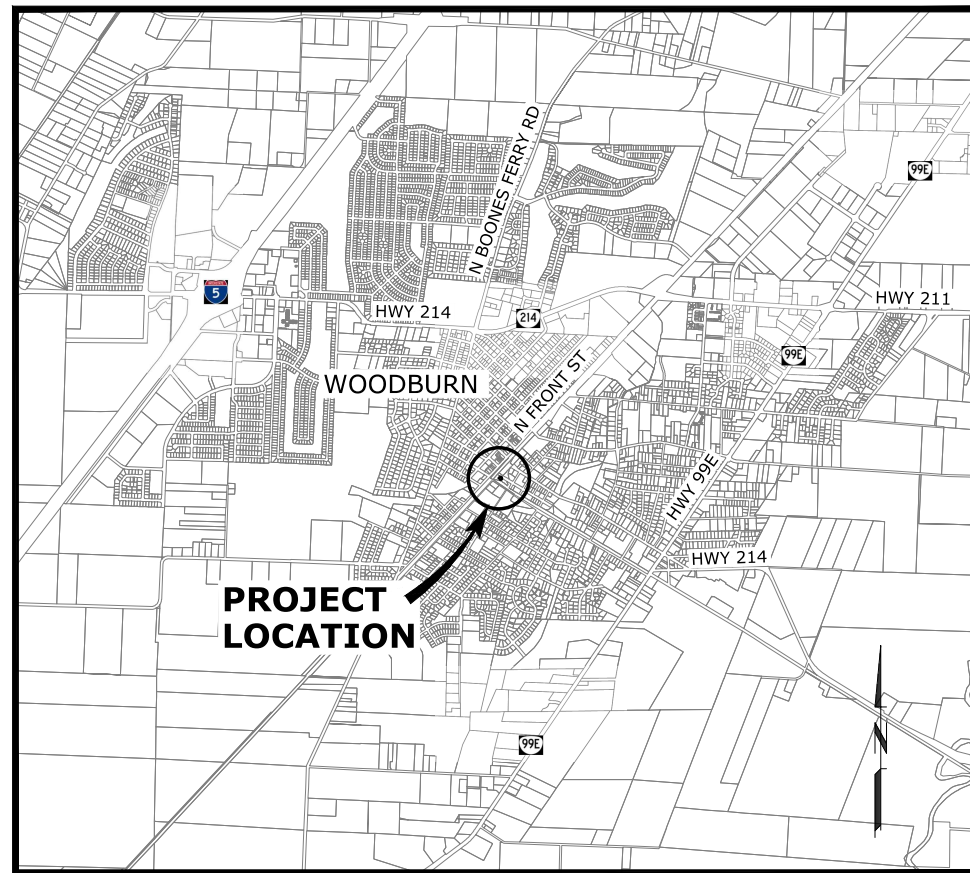




WATER TOWER REPAINTING AND IMPROVEMENTS PROJECT

FEBRUARY 2022



VICINITY MAP
SCALE: 1"=2,000'

INDEX OF DRAWINGS

GENERAL

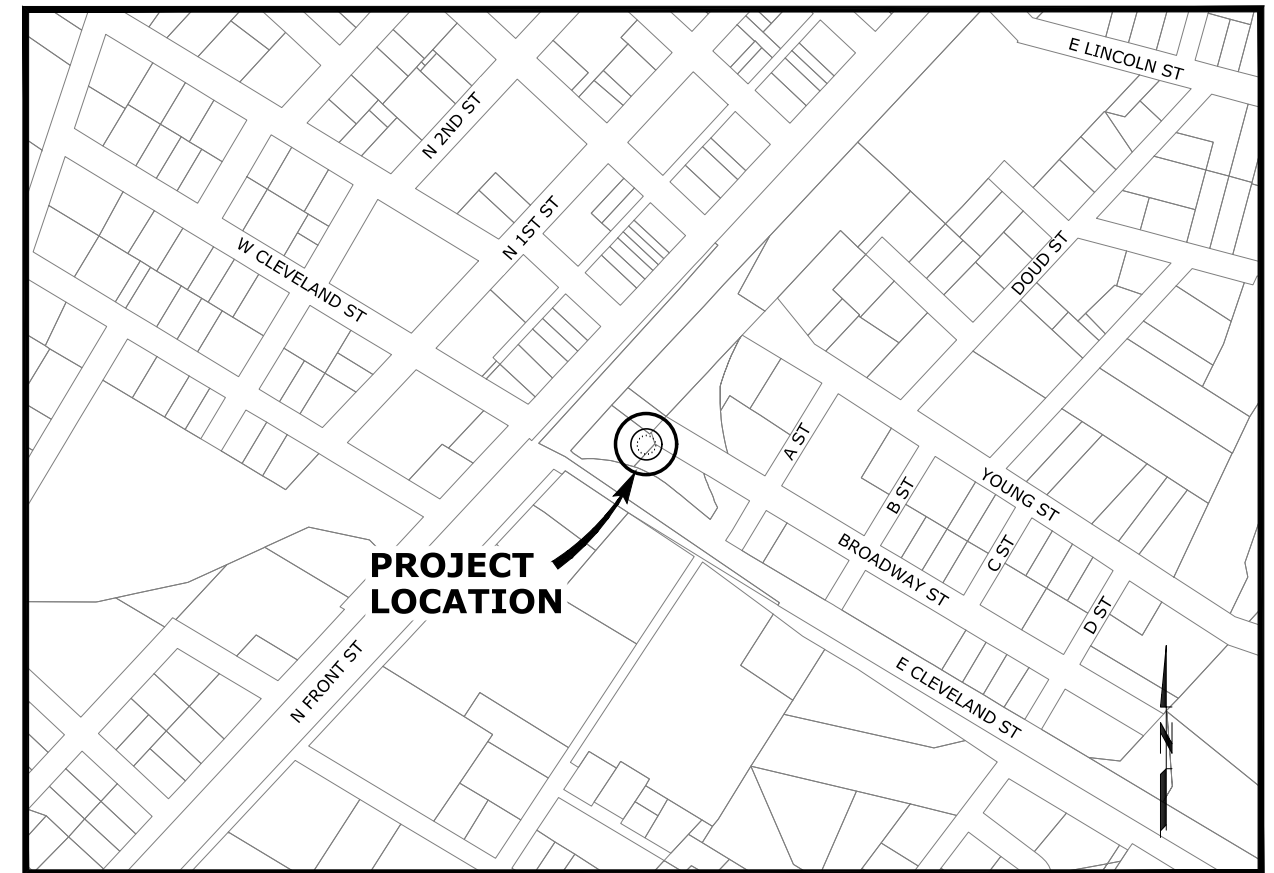
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CITY PROJECT NO.: 2018-008-28.1
BID NO.: 2022-03

PROJECT ADDRESS:
106 BROADWAY STREET,
WOODBURN, OR 97071



LOCATION MAP
SCALE: 1"=200'



888 SW 5TH AVE, SUITE 1170
PORTLAND, OREGON 97204
P 503.225.9010



Know what's below.
Call before you dig.

NOTICE TO EXCAVATORS
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 852-001-2010 THROUGH OAR 852-001-2090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987.)

POTENTIAL UNDERGROUND FACILITY OWNERS
Dig Safely.
Call the Oregon One-Call Center
1-800-332-2344

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF WOODBURN, JURISDICTIONAL FIRE PROTECTION REQUIREMENTS, AND APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL HAVE IN POSSESSION AT THE JOB SITE AT ALL TIMES ONE SIGNED COPY OF APPROVED PLANS, STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ANY VARIANCE TO THE ABOVE DOCUMENTS. NOTIFY ENGINEER OF ANY CONFLICTING STANDARDS OR SPECIFICATIONS. IN THE EVENT OF ANY CONFLICTING STANDARD OR SPECIFICATION, THE MORE STRINGENT OR HIGHER QUALITY STANDARD, DETAIL OR SPECIFICATION SHALL APPLY.

2. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EMERGENCY ACCESS ROUTES TO THE SITE AND STRUCTURE AT ALL TIMES PER THE APPLICABLE JURISDICTIONAL FIRE PROTECTION DISTRICT REQUIREMENTS.

3. THE CONTRACTOR SHALL OBTAIN, AT THE CONTRACTOR'S EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARD SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE REQUIRED PARTY (OWNER, ENGINEER, OR JURISDICTIONAL AUTHORITY) AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION, PRIOR TO BACKFILLING, AND AS REQUIRED BY JURISDICTIONAL AUTHORITY AND/OR PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL CONTINUE WITH NOTIFICATIONS THROUGHOUT THE PROJECT AS REQUIRED BY THE STANDARDS AND SPECIFICATIONS.

5. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION BASED ON INFORMATION BY OTHERS. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE, LOCATION AND TYPE OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF UTILITIES SHALL BE PERFORMED AND INSPECTED ACCORDING TO THE REQUIREMENTS OF THE UTILITY OWNER. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAPPING ANY EXISTING UTILITY (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM THE APPROPRIATE UTILITY OWNER BEFORE RELOCATING ANY ENCOUNTERED UTILITIES. CONTRACTOR RESPONSIBLE FOR SERVICE CONNECTIONS, AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES (TELEPHONE, GAS, CABLE, ETC., WHICH SHALL BE COORDINATED WITH THE UTILITY OWNER). THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER OF OREGON.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ADJUTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL APPLICABLE PERMITS FOR GROUNDWATER DISCHARGE.

7. ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE DIRECTED BY THE MUNICIPALITY OR OWNER'S REPRESENTATIVE.

8. THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL JURISDICTION, AND THE APPROVED EROSION CONTROL MEASURES AT THE CONTRACTORS EXPENSE DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED. THE CONTRACTOR IS RESPONSIBLE FOR PROHIBITING SILT AND DEBRIS LADEN RUNOFF FROM LEAVING THE SITE, AND FOR KEEPING ALL PUBLIC AREAS FREE OF MUD AND DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING FINAL GRADES AND FOR REMOVING ACCUMULATED SEDIMENTATION FROM ALL AREAS INCLUDING SWALES AND DETENTION/WATER QUALITY AREAS. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.

9. THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS ("AS-BUILT"), FOR THE CONSTRUCTED IMPROVEMENTS. THE PLANS SHALL BE MARKED UP TO SHOW SUFFICIENT DIMENSION TIES TO REASONABLY PERMANENT SURFACE FEATURES FOR ALL BURIED FACILITIES TO ALLOW FOR FUTURE LOCATING. ENGINEER WILL PRODUCE FINAL RECORD DRAWINGS TO OWNER.

10. THE GENERAL PROJECT SCOPE OF WORK IS AS FOLLOWS.

DEMOLITION ITEMS:

- EXISTING ROOF CENTER VENT SHALL BE REMOVED AND DISCARDED
- EXISTING UPPER CURVED LADDER, FALL PREVENTION SYSTEM, AND ANTENNA SCAFFOLDING SHALL BE REMOVED AND DISCARDED
- FULL LENGTH OF EXISTING PCUN RADIO CABLE/ANTENNA, ROOF HATCH INTRUSION SWITCH, AND LOWER LADDER INTRUSION SWITCH SHALL BE REMOVED AND DISCARDED
- EXISTING LOWER LADDER, FALL PREVENTION SYSTEM, AND CLIMB PREVENTION SHIELD SHALL BE REMOVED AND DISCARDED

NEW APPURTENANCES, ACCESSORIES, AND OTHER ITEMS:

- FIELD MEASURE FOR ALL METALWORK UPGRADE ITEMS PRIOR TO CREATION OF SHOP DRAWINGS AND CALCULATIONS TO BE SUBMITTED FOR APPROVAL.
- NEW ROOF CENTER VENT WITH EXPANDED OPENING.
- NEW UPPER LADDER WITH FALL PREVENTION SYSTEM, PLATFORM, STAIRWAY, ANGLE TREADS, AND WALKWAY WITH HANDRAILS ON BOTH SIDES TO AND AROUND CENTER VENT.
- NEW HATCH INTRUSION SWITCH ON EXISTING ROOF ACCESS HATCH, RE-USING EXISTING BURIED COMBINED CONDUIT FROM TELEMETRY BUILDING TO COLUMN 2, AND EXTENDING ABOVE-GRADE CONDUIT TO ROOF HATCH AS REQUIRED.
- NEW LOWER LADDER WITH FALL PREVENTION SYSTEM, CLIMB PREVENTION SHIELD, CATWALK LANDING PAD, AND INTEGRATION WITH THE EXISTING CATWALK HANDRAIL ON COLUMN 2.
- NEW LADDER INTRUSION SWITCH ON NEW LOWER LADDER CLIMB PREVENTION SHIELD, RE-USING EXISTING BURIED COMBINED CONDUIT FROM TELEMETRY BUILDING TO COLUMN 2.

MAINTENANCE PAINTING FOR THE TANK SHALL INCLUDE THE FOLLOWING:

- INTERIOR COATING: SPOT SURFACE PREPARATION TO SSPC-SP11 AND SPOT PRIMING AS NEEDED TO REPAIR ALL COMPROMISED AREAS, AND TWO-COAT PROTECTIVE COATING SYSTEM
- DISINFECTION OF RESERVOIR INTERIOR FOLLOWING COMPLETED INTERIOR COATING APPLICATION AND APPROVALS.
- EXTERIOR COATING SYSTEM: FULL EXTERIOR WATERJET CLEANING TO SSPC-SP WJ-4, SPOT SURFACE PREPARATION TO SSPC-SP11 AND SPOT PRIMING AS NEEDED TO REPAIR ALL COMPROMISED AREAS, AND DRY-FALL SPRAYABLE OVERCOAT SYSTEM INCLUDING TWO-COAT PROTECTIVE COATING SYSTEM. TANK PAINTING CONTRACTOR SHALL WORK AROUND EXISTING CABLING AND ANTENNAS ON TANK COLUMNS, SHELL, AND CATWALK, PREPARING AND COATING THE SURFACES TO THE BEST OF THEIR ABILITIES WHERE ACCESS IS NOT OPTIMAL.

ABBREVIATIONS

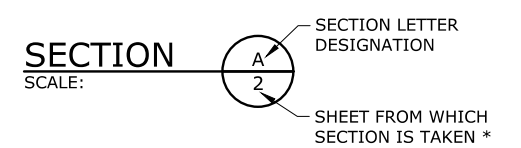
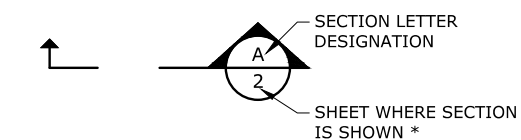
@	AASHTO	AT	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABAN(D)	AC	AL	ALUMINUM
AL	ALUMINUM	APPROX	APPROXIMATE
APPROX	ASTM	ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AVE	BFILL	BLDG	BUILDING
BLDG	BM	C/L	CENTERLINE
BM	CB	CMP	CORRUGATED METAL PIPE
C/L	CB	CND	CONDUIT
CB	CMP	CO	CLEANOUT / COLORADO
CMP	CND	CONC	CONCRETE
CND	CO	CR	CRUSHED ROCK
CONC	CR	CULV	CULVERT
CONC	CR	CY	CUBIC YARDS
CR	CULV	D	DRAIN
CRUSHED ROCK	CULV	DEFLECT	DEFLECT
CULVERT	CY	DET	DETAIL
CUBIC YARDS	D	DIA	DIAMETER
DRAIN	DEFLECT	DR	DRIVE
DEFLECT	DET	E	ELECTRIC / EAST / EASTING
DETAIL	DIA	EA	EACH
DIAMETER	DR	EL	ELEVATION
DRIVE	E	ELEC	ELECTRIC
ELECTRIC / EAST / EASTING	EA	EQ	EQUAL
EACH	EL	ESMT	EASEMENT
ELEVATION	ELEC	EXIST	EXISTING
ELECTRIC	EQ	FT	FEET / FOOT
EQUAL	ESMT	G	GAS
EASEMENT	EXIST	GALV	GALVANIZED
EXISTING	FT	GR	GRADE
FEET / FOOT	G	GRVL	GRAVEL
GAS	GALV	HDPE	HIGH DENSITY POLYETHYLENE
GALVANIZED	GR	HORIZ	HORIZONTAL
GRADE	GRVL	HWY	HIGHWAY
GRAVEL	HDPE	ID	INSIDE DIAMETER
HIGH DENSITY POLYETHYLENE	HORIZ	IE	INVERT ELEVATION
HORIZONTAL	HWY	JB	JUNCTION BOX
HIGHWAY	ID	LF	LINEAR FEET
INSIDE DIAMETER	IE	MATL	MATERIAL
INVERT ELEVATION	JB	MAX	MAXIMUM
JUNCTION BOX	LF	MIN	MINIMUM
LINEAR FEET	MATL	MH	MANHOLE
MATERIAL	MAX	N	NORTH / NORTHING
MAXIMUM	MIN	NO.	NUMBER
MINIMUM	MH	NTS	NOT TO SCALE
MANHOLE	N	OF	OVERFLOW
NORTH / NORTHING	NO.	PVC	POLYVINYL CHLORIDE
NUMBER	NTS	PVMT	PAVEMENT
NOT TO SCALE	OF	QTY	QUANTITY
OVERFLOW	PVC	R/W	RIGHT-OF-WAY
POLYVINYL CHLORIDE	PVMT	RD	ROAD
PAVEMENT	QTY	REQ'D	REQUIRED
QUANTITY	R/W	RES	RESERVOIR
RIGHT-OF-WAY	RD	S	SOUTH
ROAD	REQ'D	SD	STORM DRAIN
REQUIRED	RES	SDMH	STORM DRAIN MANHOLE
RESERVOIR	S	SF	SQUARE FEET
SOUTH	SD	SHT	SHEET
STORM DRAIN	SDMH	SLP	SLOPE
STORM DRAIN MANHOLE	SF	SQ	SQUARE
SQUARE FEET	SHT	SS	SANITARY SEWER
SHEET	SLP	SST	STAINLESS STEEL
SLOPE	SQ	ST	STREET
SQUARE	SS	STA	STATION
SANITARY SEWER	SST	STD	STANDARD
STAINLESS STEEL	ST	STL	STEEL
STREET	STA	S/W	SIDEWALK
STATION	STD	T	TELEPHONE
STANDARD	STL	TELEM	TELEMETRY
STEEL	S/W	THK	THICK
SIDEWALK	T	TYP	TYPICAL
TELEPHONE	TELEM	UPRR	UNION PACIFIC RAILROAD
TELEMETRY	THK	VERT	VERTICAL
THICK	TYP	W	WATER / WEST
TYPICAL	UPRR	W/	WITH
UNION PACIFIC RAILROAD	VERT		
VERTICAL	W		
WATER / WEST	W/		
WITH			

TOPOGRAPHIC LEGEND

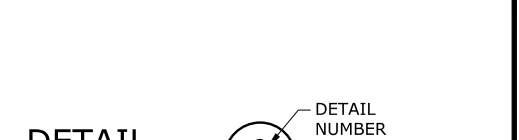
	EXISTING	PROPOSED
WATERLINE	--- 10"W ---	
ELECTRICITY	--- E ---	
TELEPHONE/TELEMETRY	--- T ---	
SANITARY SEWER LINE	--- 8"SS ---	
STORM DRAIN	--- 8"SD ---	--- 8"SD ---
CULVERT	--- 30"CMP ---	--- 18"D ---
ABANDON PIPE		+++++
DRAINAGE DITCH	-----	-----
BARBWIRE FENCE	--- X X X ---	
TEMPORARY SILT FENCE		--- □ ---
TREE/BUSH LINE	~~~~~	
CENTERLINE	-----	
EASEMENT/PROPERTY LINE	-----	
RIGHT-OF-WAY	-----	
EDGE OF PAVEMENT/AC	-----	
EDGE OF GRAVEL	-----	
CURB	=====	
SIDEWALK	----- S/W -----	
STRUCTURE OR FACILITY	=====	
CONTOUR MINOR	-----	-----
CONTOUR MAJOR	----- 200 -----	----- 200 -----
MANHOLE	○	●
CLEAN-OUT	○	○
CATCH BASIN/FIELD INLET	□	□
UTILITY POLE	○	
GUY WIRE	←	
SIGN	↑	
BENCHMARK	⊕	⊕
TREE DECIDUOUS	☁	☁
TREE CONIFEROUS	☁	☁
TREE TO BE REMOVED	☁	☁
BORE PIT		●

SECTION AND DETAIL DESIGNATIONS

SECTION DESIGNATIONS



DETAIL DESIGNATIONS



* NOTE: IF PLAN AND SECTION FOR DETAIL CALL-OUT AND DETAIL ARE SHOWN ON THE SAME DRAWING, DRAWING NUMBER IS REPLACED WITH A DASH.

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NO.	DATE	BY	REVISION

NOTICE

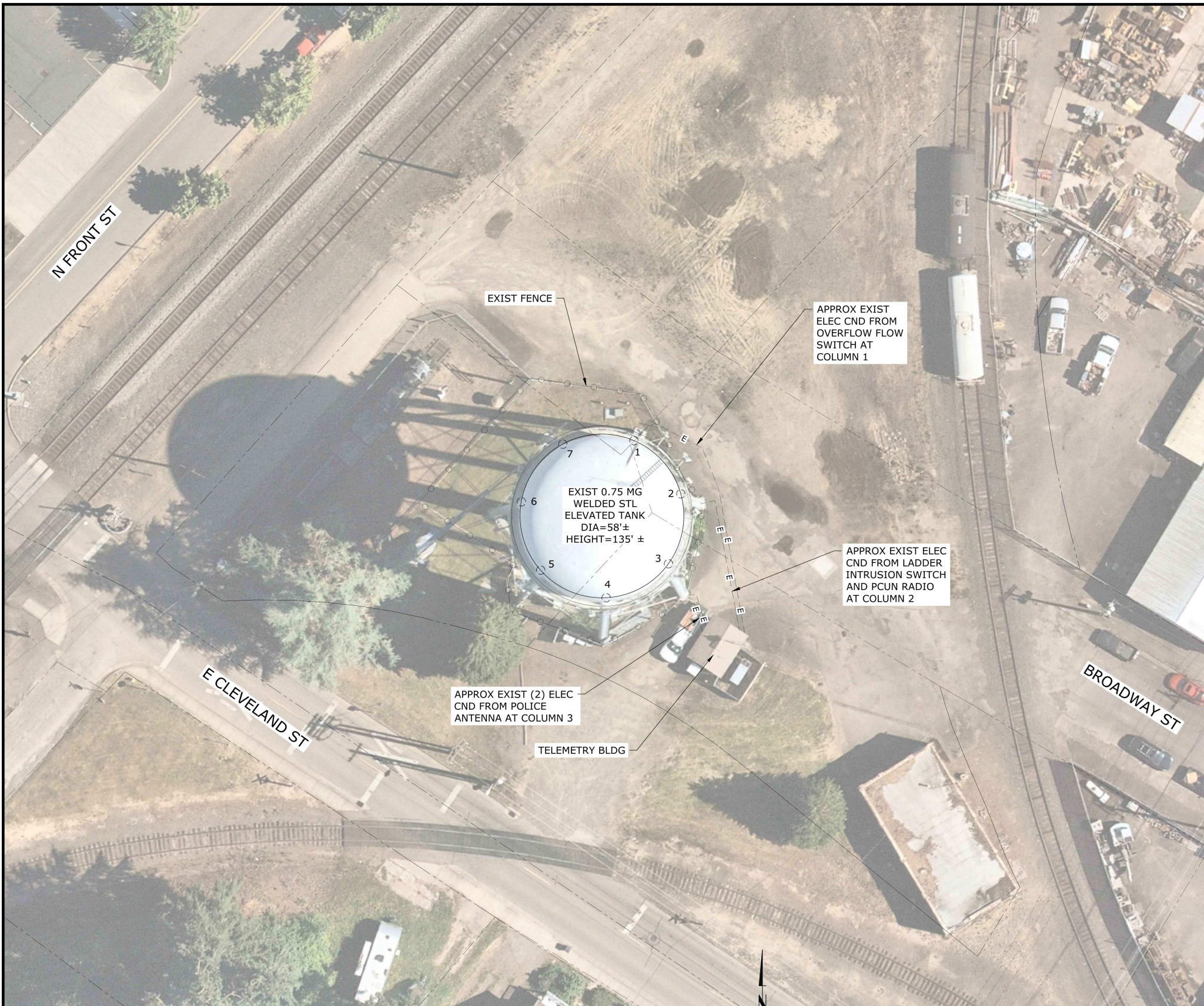
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

KAU	DESIGNED
EJJ	DRAWN
JHF	CHECKED

GENERAL NOTES, ABBREVIATIONS AND LEGEND			
PROJECT NO.:	19-2574	SCALE:	AS SHOWN
DATE:	FEBRUARY 2022		

SHEET	G-2
	2 of 7

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PLAN
SCALE: 1"=20'

NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES AND FACILITIES ON-SITE THROUGHOUT CONSTRUCTION. ANY DAMAGE CAUSED SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.
2. CONTRACTOR MAY UTILIZE AREA WITHIN EXISTING SITE SECURITY FENCE FOR STAGING AND STORAGE OF MATERIALS. STAGING AND STORAGE OF MATERIALS WILL BE PERMITTED OUTSIDE OF FENCE AS WELL, ON CITY PROPERTY, BUT CONTRACTOR SHALL NOTE THERE IS NO FENCING. PROTECT ALL EXISTING FACILITIES AND REPAIR ANY DAMAGE TO STRUCTURES OR OTHER SITE FEATURES TO PRE-CONSTRUCTION CONDITIONS.
3. THERE ARE EXISTING CONDUITS INSTALLED FROM THE TELEMETRY BUILDING TO THE RESERVOIR COLUMNS, SOME OF WHICH EXTEND UP TO THE RESERVOIR ROOF. THE FOLLOWING SCHEDULE LISTS THE EXTENTS AND WORK REQUIRED FOR EACH CONDUIT:

POLICE RADIO: TWO EXISTING CONDUITS (±1.5" DIAMETER) INSTALLED FROM THE TELEMETRY BUILDING TO COLUMN 3, EXTEND VERTICALLY UP THE COLUMN, THEN HORIZONTALLY (COUNTER CLOCKWISE) ALONG THE CATWALK RAILING, UNTIL CROSSING THE WALKWAY NEAR THE UPPER LADDER, AND TERMINATING AT A ROOF ANTENNA. THE SECTION OF THESE CONDUITS ALONG COLUMN 3 SHALL BE RE-MOUNTED FOLLOWING THE CONDUIT-MOUNTING BRACKET DETAIL ON DETAIL 3, SHEET C-5. PRESERVE AND PROTECT THE CABLE ALONG THE CATWALK RAILING. THE PORTION OF THE CABLE EXTENDING UP THE UPPER LADDER TO THE ROOF ANTENNA SHALL BE REMOVED AND REINSTALLED WITH NEW CONDUIT MOUNTING BRACKETS PER SAME DETAIL 3 ON SHEET C-5.

LADDER INTRUSION SWITCH/PCUN RADIO/HATCH INTRUSION SWITCH: ONE EXISTING CONDUIT (±1.5" DIAMETER) INSTALLED FROM THE TELEMETRY BUILDING TO COLUMN 2 (SAME COLUMN AS THE LOWER LADDER), HOUSES THE LADDER INTRUSION SWITCH THAT TERMINATES AT THE BOTTOM OF THE LOWER LADDER AND THE ABANDONED PCUN RADIO CABLE. THE EXISTING LADDER INTRUSION SWITCH CABLE SHALL BE REMOVED AND DISCARDED, RETAINING THE BURIED CONDUIT FOR INSTALLING NEW INTRUSION SWITCHES. THE PCUN RADIO CABLE EXTENDS UP COLUMN 2, FOLLOWS THE CATWALK RAILING TO THE UPPER LADDER, AND TERMINATES AT A ROOF ANTENNA. THE PCUN RADIO CABLE, ANTENNA, AND ALL ASSOCIATED MOUNTING APPURTENANCES FROM THE TELEMETRY BUILDING TO THE ROOF ANTENNA SHALL BE REMOVED. THE NEW LOWER LADDER INTRUSION SWITCH AND THE ROOF HATCH INTRUSION SWITCH SHALL BE ROUTED THROUGH THE EXISTING BURIED CONDUITS TO COLUMN 2. NEW CONDUIT AND CONDUIT MOUNTING BRACKETS SHALL BE INSTALLED UP COLUMN 2 IN A WAY THAT ALLOWS THE LADDER INTRUSION SWITCH TO TERMINATE 10-FEET ABOVE GROUND AT THE CLIMB PREVENTION SHIELD, WHILE THE ROOF HATCH INTRUSION SWITCH EXTENDS UP COLUMN 2. THE HATCH INTRUSION SWITCH SHALL BE MOUNTED TO THE RAILING, CROSS THE CATWALK NEAR THE UPPER LADDER, AND BE MOUNTED ON CONDUIT MOUNTING BRACKETS UNTIL TERMINATING AT THE ROOF HATCH.

OVERFLOW FLOW SWITCH: ONE EXISTING CONDUIT (±3/4" DIAMETER) INSTALLED FROM THE TELEMETRY BUILDING TO COLUMN 1 (WHERE THE OVERFLOW PIPE IS LOCATED) HOUSES THE FLOW SWITCH CABLE WHICH TERMINATES NEAR THE BOTTOM OF COLUMN 1. PRESERVE AND PROTECT THIS CABLE DURING CONSTRUCTION.

4. FOLLOWING ALL WORK, APPLY TOP SOIL, SEED MIXTURE, AND/OR GRAVEL SURFACING AS NEEDED TO MATCH PRE-CONSTRUCTION SURFACE CONDITIONS. CONTRACTOR TO SUBMIT SEED MIXTURE FOR REVIEW.

RECOMMENDED CONSTRUCTION SEQUENCING:

1. PERFORM METALWORK TANK UPGRADES, LEAD ABATEMENT, AND EXTERIOR COATING WITH TANK IN SERVICE.
2. PERFORM INTERIOR COATING SPOT REPAIRS AND TANK LETTERING WHILE TANK IS OUT OF SERVICE. THE TANK SHALL BE OUT OF SERVICE NO EARLIER THAN SEPTEMBER 15, 2022, CONTINGENT ON WEATHER AND WATER CONSUMPTION PROJECTIONS. THE TANK OUT OF SERVICE PERIOD SHALL BE NO MORE THAN 30 CALENDAR DAYS.
3. RESTORE ALL SITE FEATURES TO PRE-CONSTRUCTION CONDITIONS.

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

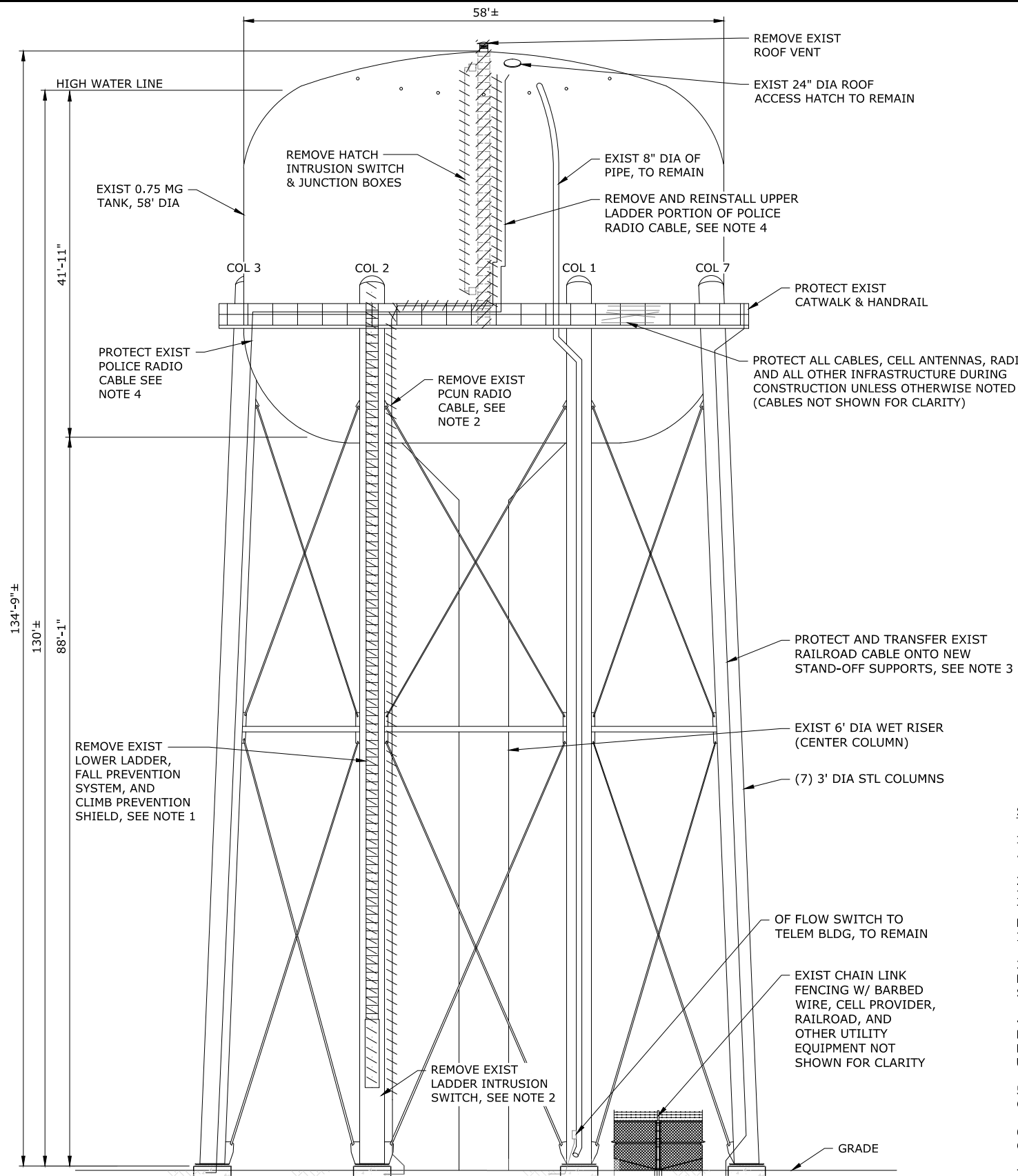
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EJJ
DRAWN
JHF
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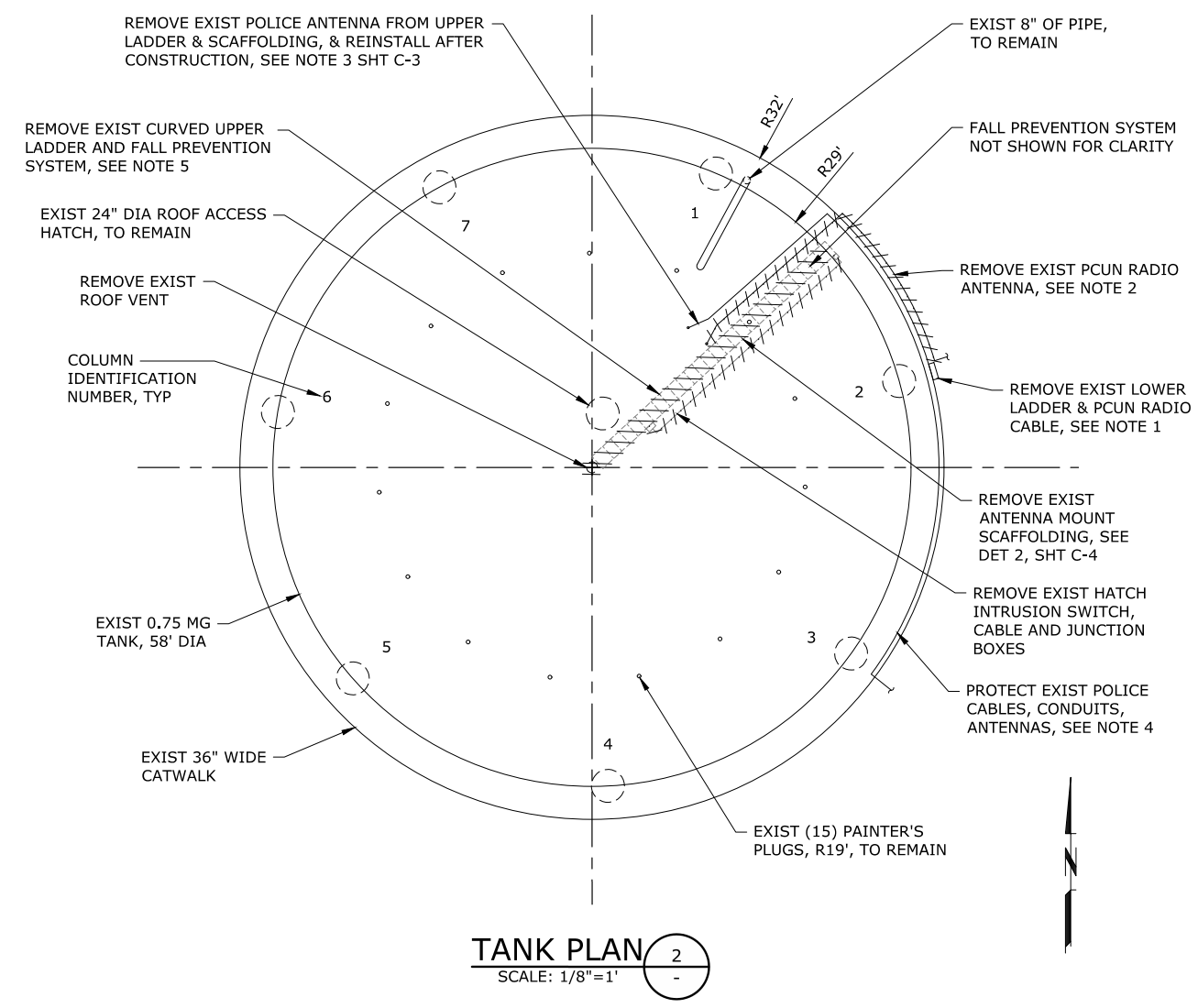
SITE PLAN			
PROJECT NO.:	19-2574	SCALE:	AS SHOWN
DATE:	FEBRUARY 2022		

SHEET
C-1
3 of 7

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ELEVATION 1
SCALE: 1/8"=1'



TANK PLAN 2
SCALE: 1/8"=1'

SHEET NOTES:

1. THE EXISTING LOWER LADDER, FALL PREVENTION SYSTEM, AND LADDER CLIMB PREVENTION SHIELD SHALL BE COMPLETELY REMOVED AND DISCARDED. GRIND ALL UNUSED CONNECTION POINTS FLUSH WITH THE TANK SHELL. SEE SHEET C-3 FOR NEW LADDER AND ANCILLARY SYSTEM INSTALLATION REQUIREMENTS.
2. REMOVE AND DISCARD FULL LENGTH OF THE ABANDONED PCUN RADIO CABLE FROM TELEMETRY BUILDING TO ROOF ANTENNA MOUNTED ON SCAFFOLDING, INCLUDING ALL ASSOCIATED MOUNTING HARDWARE AND STRAPS, EXCEPT FOR THE PVC CONDUIT MOUNTED AT THE BOTTOM OF COLUMN 2, WHICH ALSO HOUSES THE LADDER INTRUSION SWITCH. REMOVE AND DISCARD FULL LENGTH OF THE EXISTING LADDER INTRUSION SWITCH CABLE FROM TELEMETRY BUILDING TO THE BOTTOM OF THE LOWER LADDER, APPROXIMATELY 10 FEET ABOVE GROUND. THE EXISTING BURIED CONDUIT WILL HOUSE TWO NEW CABLES: ROOF HATCH INTRUSION SWITCH AND LADDER INTRUSION SWITCH. THE NEW CABLES, CONDUIT, AND MOUNTS ARE DESCRIBED ON SHEET C-3.
3. PROTECT EXIST UNION PACIFIC RAILROAD (UPRR) CABLE, WHICH EXTENDS FROM THE UPRR BUILDING ADJACENT TO COLUMN 2, UP COLUMN 7 TO A RAILING MOUNTED ANTENNA. REMOVE AND DISCARD THE EXISTING STAINLESS STEEL MOUNTING STRAPS ON COLUMN 7, AND RE-MOUNT THE CONDUITS AS DESCRIBED ON SHEET C-3.
4. PROTECT THE TWO EXISTING POLICE RADIO CABLES AND CONDUITS, WHICH EXTEND FROM THE TELEMETRY BUILDING, UP COLUMN 3, THEN SPLIT TO A ROOF-MOUNTED ANTENNA AND A RAILING MOUNTED ANTENNA. REMOVE AND DISCARD THE EXISTING STAINLESS STEEL MOUNTING STRAPS ON COLUMN 3, AND RE-MOUNT THE TWO CONDUITS AS DESCRIBED ON SHEET C-3. REMOVE AND REINSTALL THE PORTION OF THE POLICE ANTENNA, CABLE, AND CONDUIT EXTENDING UP THE UPPER LADDER TO THE ROOF-MOUNTED ANTENNA AS FURTHER DESCRIBED ON SHEET C-3.
5. THE EXISTING CURVED UPPER LADDER, FALL PREVENTION SYSTEM, AND ANTENNA MOUNT SCAFFOLDING SHALL BE COMPLETELY REMOVED AND DISCARDED. GRIND ALL UNUSED CONNECTION POINTS FLUSH WITH THE TANK SHELL. SEE SHEET C-3 FOR NEW LADDER AND ANCILLARY SYSTEM INSTALLATION REQUIREMENTS.
6. ALL EXISTING GROUND-LEVEL AND TANK-MOUNTED EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE WITH CITY AND CELL PROVIDERS TO GAIN ENTRY INTO FENCED CELLULAR EQUIPMENT AREAS FOR ACCESS TO COLUMNS.
7. FOLLOWING DEMOLITION OF EXISTING FACILITIES AS DESCRIBED, ALL UNUSED CONNECTION POINTS TO TANK SHELL OR COLUMNS SHALL BE GROUND FLUSH.

NO.	DATE	BY	REVISION

NOTICE

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

KAU DESIGNED
EJJ DRAWN
JHF CHECKED

REGISTERED PROFESSIONAL ENGINEER

88888

Justin H Ford

MAY 21, 2008

JUSTIN HENRY FORD

RENEWS 12-31-23

murraysmith

WOODBURN

INCORPORATED 1889

WATER TOWER REPAINTING AND IMPROVEMENTS PROJECT

EXISTING TANK ROOF PLAN, ELEVATION, AND DEMOLITION PLAN

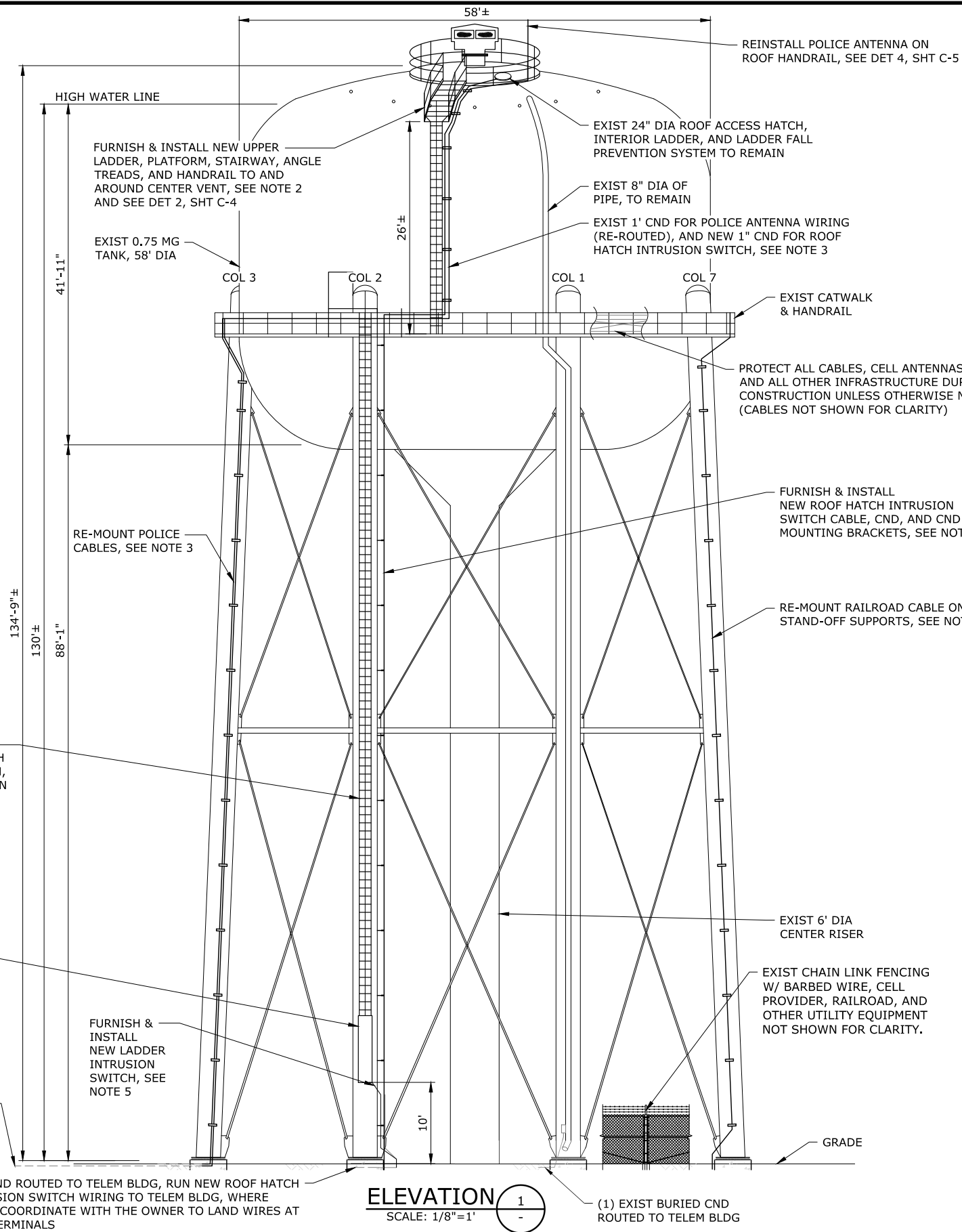
PROJECT NO.: 19-2574 SCALE: AS SHOWN DATE: FEBRUARY 2022

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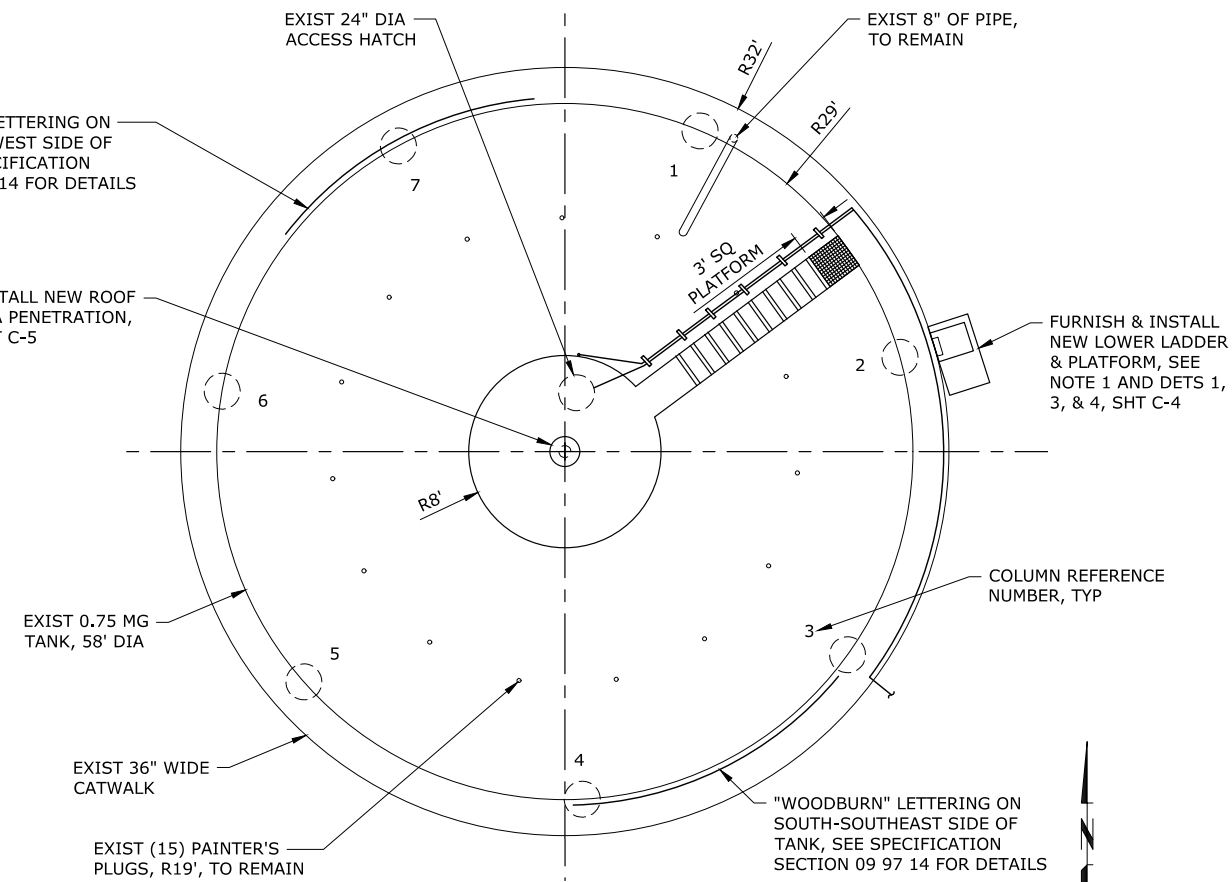
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ELEVATION 1
SCALE: 1/8"=1'



TANK PLAN 2
SCALE: 1/8"=1'

NOTES:

1. NEW LOWER LADDER SHALL BE DESIGNED AND INSTALLED PER THE DETAILS INCLUDED ON SHEET C-4, AND SHALL BE INSTALLED VERTICALLY FOR THE ENTIRE HEIGHT AND IN COMPLIANCE WITH ALL OSHA REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY LADDER HEIGHT PRIOR TO CREATING SHOP DRAWINGS FOR APPROVAL AND FABRICATION. FURNISH AND INSTALL NEW 8' TALL CLIMB PREVENTION SHIELD, WHICH SHALL BE A DEFERRED SUBMITTAL BY THE FABRICATOR FOR APPROVAL PRIOR TO FABRICATION AND CONSTRUCTION. THE SHIELD SHALL BE LOCKABLE AND HINGED AND WHEN OPEN SHALL ALLOW A USER TO CLIMB UP THE LADDER UNIMPEDED. WHEN CLOSED THE SHIELD SHALL COMPLETELY ENCLOSE ALL ELEMENTS OF THE LADDER AT THE BASE TO ELIMINATE ANY POTENTIAL FOR UNWANTED CLIMBING. FIELD VERIFY THE COLUMN, BRACING, AND CABLE MOUNTING ELEMENTS PRIOR TO CREATING SHOP DRAWINGS AND FABRICATION. THE SHIELD SHALL BE EQUIPPED WITH AN INTRUSION SWITCH AND THE SIGNAL WIRING ROUTED TO THE TELEMETRY BUILDING THROUGH THE EXISTING BURIED CONDUIT. EXTEND NEW CONDUIT FOR INTRUSION SWITCH LOCATION ON NEW STANDOFF MOUNTS PER NOTE 5. CONTRACTOR SHALL FIELD MEASURE FOR ALL ELEMENTS PRIOR TO CREATING SHOP DRAWINGS, AND SHALL PROVIDE FINAL DESIGN, SHOP DRAWINGS, AND CALCULATIONS FOR APPROVAL FOR ALL LADDER ELEMENTS INCLUDING LANDING PLATFORM AT CATWALK IN COORDINATION WITH THE PERFORMANCE DETAILS PRESENTED ON SHEET C-4.
2. NEW UPPER LADDER WITH FLARED OPENING AT THE NEW LANDING PLATFORM SHALL BE DESIGNED AND INSTALLED PER THE DETAILS INCLUDED ON SHEET C-4.
3. RE-MOUNT THE EXISTING POLICE AND RAILROAD CABLES USING WELDED STUD ATTACHMENTS WITH UNISTRUT PER DETAIL 3 ON SHEET C-5. NEW LADDER INTRUSION SWITCH AND HATCH INTRUSION SWITCH CABLES SHALL BE MOUNTED USING THE SAME WELDED STUD ATTACHMENT DETAIL. ENSURE ALL PREVIOUS STAINLESS STEEL MOUNTING STRAPS HAVE BEEN REMOVED AND DISCARDED.
4. FOLLOWING ALL RESERVOIR METALWORK AND UPGRADES, THE RESERVOIR INTERIOR AND EXTERIOR INCLUDING ALL ATTACHMENTS AND APPURTENANCES SHALL BE COATED PER SPECIFICATIONS. INTERIOR COATING IS LIMITED TO SPOT REPAIRS FROM DAMAGE DUE TO EXTERIOR WELDING WORK.
5. INSTALL NEW ROOF HATCH INTRUSION SWITCH AND NEW LOWER LADDER CLIMB PREVENTION SHIELD INTRUSION SWITCH. REUSE EXISTING BURIED CONDUIT FROM TELEMETRY BUILDING TO COLUMN 2. REUSE EXISTING 2" DIAMETER ± VERTICAL PVC CONDUIT WHICH TERMINATES AT BOTTOM OF LADDER. EXTEND 1" DIAMETER PVC CONDUIT UP TO ROOF HATCH. THE LADDER INTRUSION SWITCH SHALL TERMINATE AT THE BOTTOM OF THE LOWER LADDER CLIMB PREVENTION SHIELD DESCRIBED IN NOTE 1, AND THE HATCH INTRUSION SWITCH SHALL EXTEND UP COLUMN 2 AND ALONGSIDE THE UPPER LADDER TO THE ROOF HATCH USING WELDED STUD AND UNISTRUT CONDUIT MOUNTING BRACKETS PER DETAIL 3 ON SHEET C-5. CONDUITS SHALL BE SECURELY MOUNTED TO EXISTING CATWALK RAILING USING GALVANIZED U-BOLTS. REINSTALL THE UNISTRUT CATWALK CABLE CROSSING PER DETAIL 5 ON SHEET C-5. MOUNTING BRACKETS ON COLUMN 2 SHALL BE MOUNTED ON THE INSIDE OF EXISTING FENCE LIMITS, TO LIMIT RISK OF TAMPERING. ELECTRICIAN SHALL LAND WIRING AT TERMINAL LOCATIONS IN TELEMETRY BUILDING IDENTIFIED BY THE OWNER IN THE FIELD DURING CONSTRUCTION.

(1) EXIST BURIED CND ROUTED TO TELEM BLDG, RUN NEW ROOF HATCH AND LADDER INTRUSION SWITCH WIRING TO TELEM BLDG, WHERE ELECTRICIAN SHALL COORDINATE WITH THE OWNER TO LAND WIRES AT THE APPROPRIATE TERMINALS

(1) EXIST BURIED CND ROUTED TO TELEM BLDG

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NOTICE
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

KAU
DESIGNED
EJJ
DRAWN
JHF
CHECKED



murraysmith



WOODBURN
INCORPORATED 1889

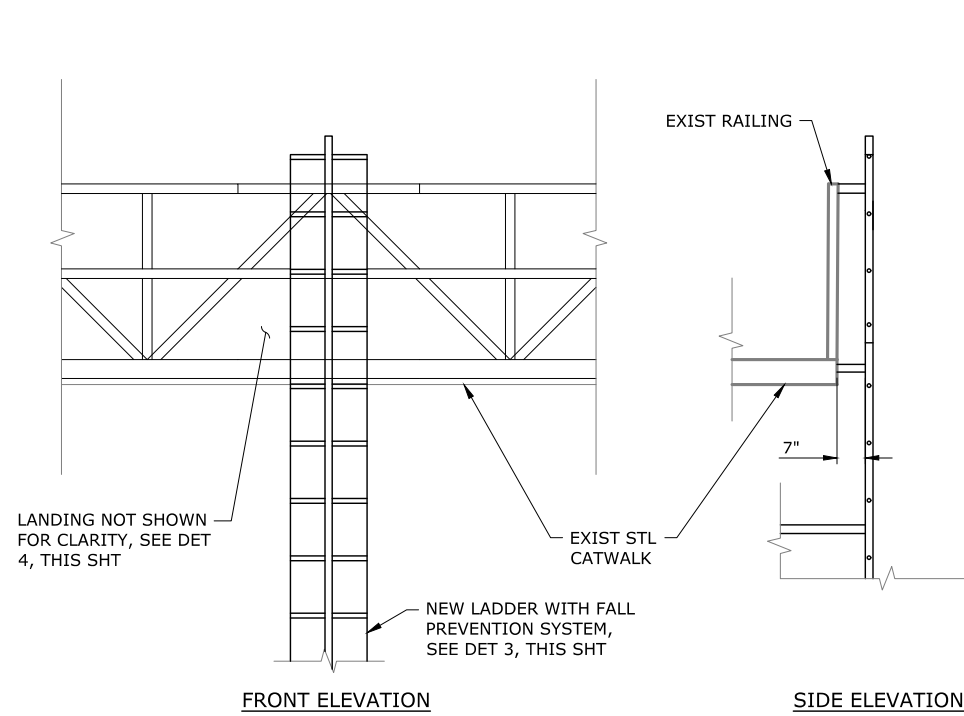
**WATER TOWER
REPAINTING AND
IMPROVEMENTS
PROJECT**

**TANK IMPROVEMENTS ROOF
PLAN AND ELEVATION**

PROJECT NO.: 19-2574 SCALE: AS SHOWN DATE: FEBRUARY 2022

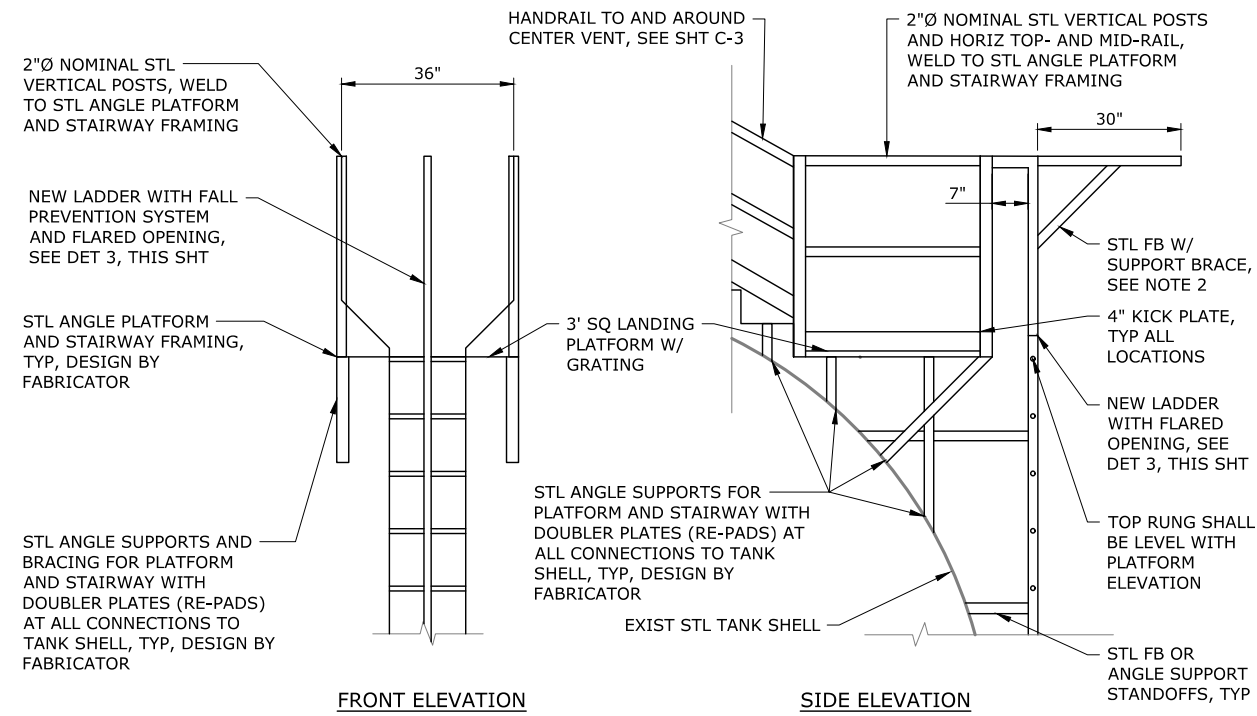
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NEW LOWER LADDER AT CATWALK

SCALE: 3/8"=1'-0"

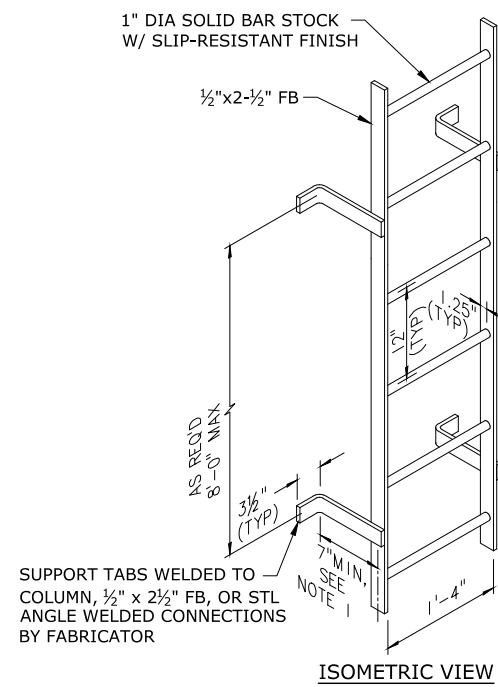


NEW UPPER LADDER OPENING AT PLATFORM

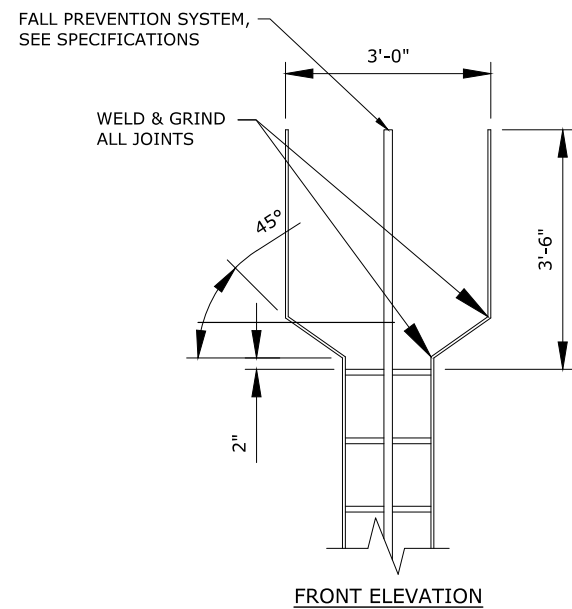
SCALE: 3/8"=1'-0"



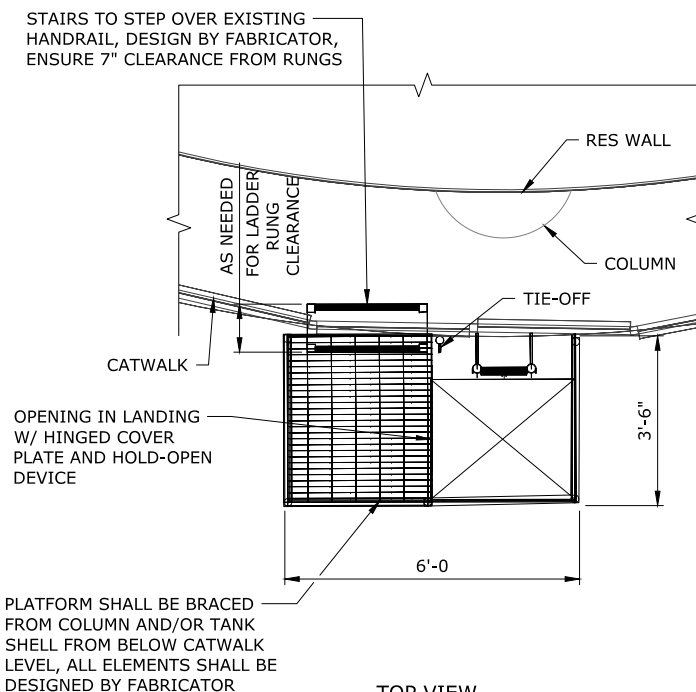
- NOTES:**
- THE NEW UPPER LADDER WITH FLARED OPENING AT THE NEW LANDING PLATFORM SHALL BE DESIGNED AND INSTALLED PER THE DETAILS INCLUDED. THE NEW LANDING PLATFORM, STAIRWAY, HANDRAIL TO AND AROUND CENTER VENT, AND ANGLE TREADS SHALL BE A DEFERRED SUBMITTAL FOR APPROVAL PRIOR TO FABRICATION AND CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LADDER HEIGHT PRIOR TO CREATING SHOP DRAWINGS FOR APPROVAL AND FABRICATION. CONSTRUCTION OF THE PLATFORM, STAIRS, AND WALKWAY TO CENTER VENT SHALL INCLUDE THE FOLLOWING:
 - MINIMUM 3' SQUARE PLATFORM WITH ANGLE STEEL SUPPORTS AND FRAMING FOR STEEL GRATING, DESIGNED BY FABRICATOR. ALL CONNECTIONS TO THE TANK SHALL INCLUDE A 1/2" THICK DOUBLER PLATE (RE-PAD) OF 8" DIAMETER, MINIMUM.
 - MINIMUM FOUR (4) STAIRS TO THE ELEVATION WHERE THE ROOF PITCH LOWERS AT 7" VERTICAL RUN AND 12" HORIZONTAL RUN, WITH STEEL GRATING, DESIGNED BY FABRICATOR.
 - MINIMUM EIGHT (8) STEEL ANGLE TREADS AT 18" ON CENTER. ANGLES SHALL BE 1/2" THICK, 4" HORIZONTAL LEG, WITH A COPED VERTICAL LEG AT A LENGTH AS REQUIRED TO WELD TO THE TANK ROOF. ANGLES SHALL BE WELDED FULL LENGTH TOP AND BOTTOM, AND SHALL INCLUDE AN END CAP ON BOTH SIDES WELDED TO THE ANGLE TO SEAL THE AREA FROM TRAPPING DEBRIS AND MOISTURE.
 - HANDRAIL SHALL BE CONSTRUCTED OF SCHEDULE 40 STEEL AND PER ALL OSHA REQUIREMENTS, MINIMUM 3'-6" TALL WITH 1/4" THICK x 4" TALL KICK PLATE, 2" NOMINAL DIAMETER TOP RAIL, 2" NOMINAL DIAMETER MIDDLE RAIL (COPED TO MEET POSTS), AND 2" NOMINAL DIAMETER POSTS AT 6" ON CENTER MAXIMUM SPACING.
 - ALL HANDRAIL COMPONENTS SHALL BE ROLLED TO MATCH ROOF RADIUS OR SHALL BE DESIGNED TO BE INSTALLED AT A HEIGHT COMPLIANT WITH ALL OSHA REQUIREMENTS. ALL POSTS SHALL BE COPED ON THE BOTTOM FOR VERTICAL PLUMB INSTALLATION, AND SHALL INCLUDE A 1/4" THICK DOUBLER PLATE (RE-PAD) OF 8" DIAMETER, MINIMUM.
 - INSTALL NON-SKID SURFACING ABOVE THE STAIRWAY FOR ALL AREAS WITHIN THE NEW HANDRAIL PER THE SPECIFICATIONS.
 - PROVIDE WELDED FLAT BAR AT TOP OF LADDER FLARE WITH BRACING EACH SIDE FOR ADDITIONAL CLIMBING CONVENIENCE. THE DESIGN SHALL INCLUDE A STRAIGHT SECTION ON EACH SIDE OF LADDER, AND A RADIUS SECTION. FINAL DESIGN PER FABRICATOR.



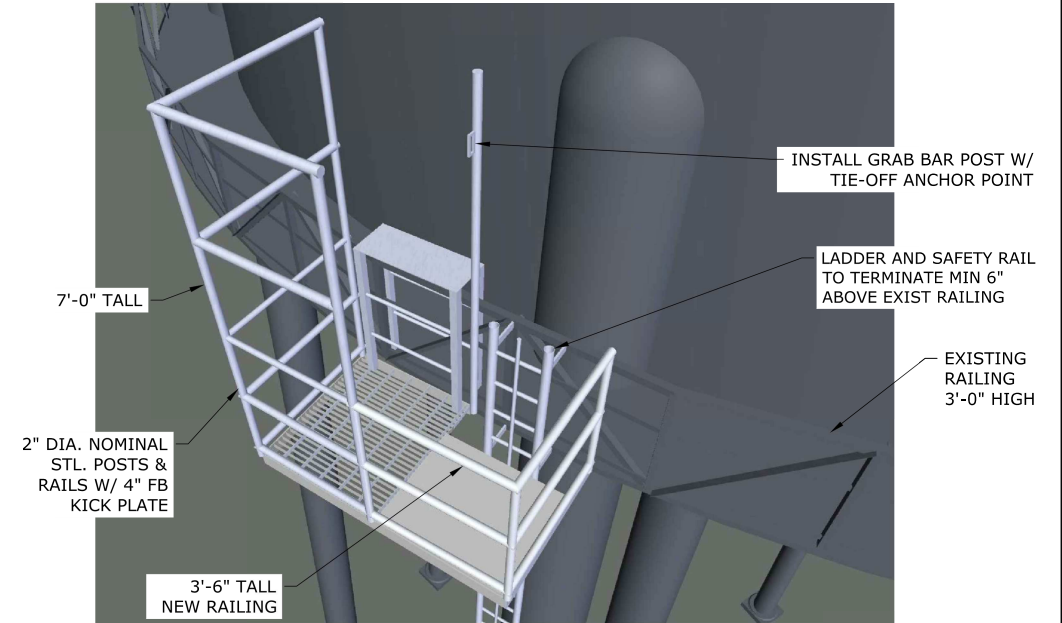
ISOMETRIC VIEW



FRONT ELEVATION



TOP VIEW



ISOMETRIC VIEW

- NOTES:**
- TYPICAL STANDOFF CONSTRUCTION SHOWN. 7" MINIMUM CLEARANCE REQUIRED BEHIND ALL LADDER RUNGS. THE UPPER LADDER STANDOFFS CAN BE FABRICATED WITHOUT THE HORIZONTAL PORTION OF THE STANDOFF IF REQUIRED, AND TRIMMED AS NEEDED IN THE FIELD TO WELD TO THE RESERVOIR SHELL WITH 8" DIAMETER DOUBLER PLATES (RE-PADS). THE LOWER LADDER STANDOFF LENGTHS SHALL BE FIELD MEASURED PRIOR TO PROVIDING SHOP DRAWINGS FOR APPROVAL AND FABRICATION, TO MAINTAIN 7" MINIMUM CLEARANCE AT CATWALK, WHICH WILL REQUIRE LONGER LEGS TO CONNECT THE LADDER TO THE COLUMN.

TYPICAL LADDER AND FLARE OPENING

SCALE: NTS



- NOTES:**
- CABLES, ANTENNAS, AND OTHER CELL COMPANY EQUIPMENT NOT SHOWN ON EXISTING HANDRAIL FOR CLARITY.
 - CONTRACTOR SHALL FIELD MEASURE FOR ALL LANDING PLATFORM ELEMENTS PRIOR TO CREATING SHOP DRAWINGS, AND A REGISTERED STRUCTURAL ENGINEER SHALL PROVIDE FINAL DESIGN, SHOP DRAWINGS, AND CALCULATIONS. SEE NOTE 1 ON SHEET C-3.

NEW LOWER LADDER PLATFORM AT CATWALK

SCALE: 1/2"=1'-0"



- HINGED COVER PLATE SHALL OPEN FACING THE LADDER IN A WAY WHICH ALLOWS A CLIMBER TO EASILY OPEN AND CLOSE THE COVER WITH ONE HAND. NEW LADDER PLATFORM SHALL BE INSTALLED AT SAME ELEVATION AS EXISTING CATWALK. STEPS OVER EXISTING RAILING SHALL BE DESIGNED FOR A SAFE AND EASY CLIMB AND DISMOUNT FROM THE LADDER PLATFORM ONTO THE EXISTING CATWALK, WHILE NOT AFFECTING ANY EXISTING CABLES AND EQUIPMENT IN PLACE ON THE RAILING.

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NOTICE

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

KAU
DESIGNED
EJJ
DRAWN
JHF
CHECKED

REGISTERED PROFESSIONAL ENGINEER

88888

Justin H Ford

MAY 21, 2004

JUSTIN HENRY FORD

RENEWS 12-31-23

murraysmith

WOODBURN

WATER TOWER REPAINTING AND IMPROVEMENTS PROJECT

DETAILS - 1

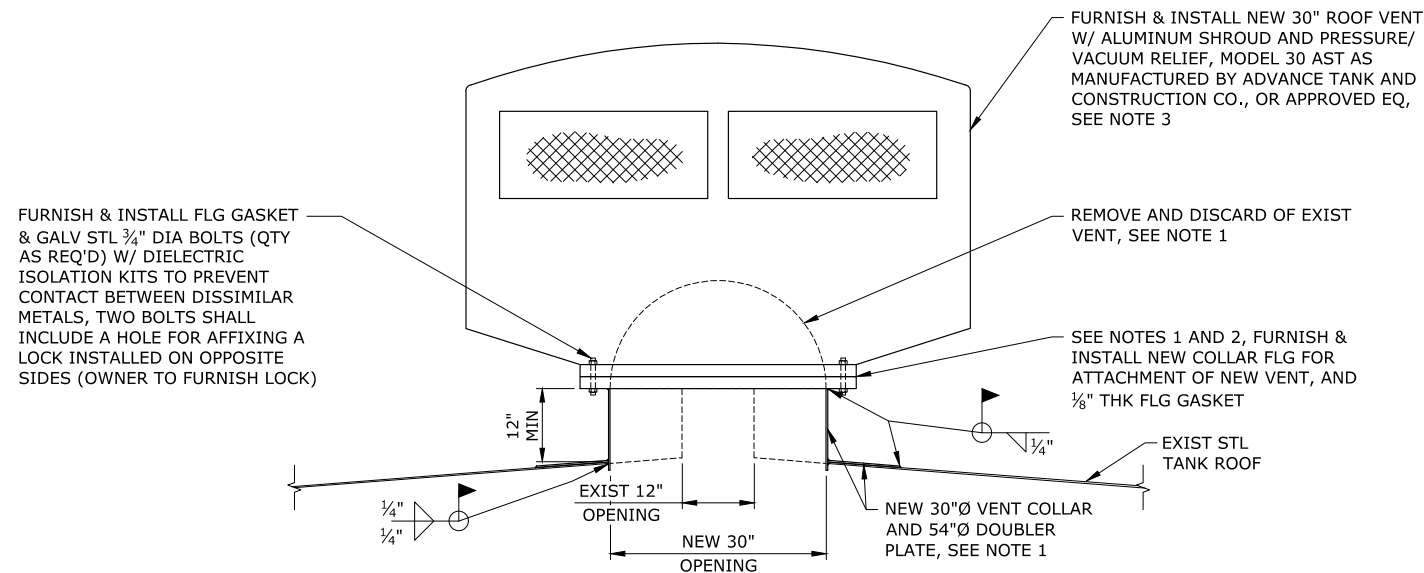
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NOTES:

1. CONTRACTOR SHALL CUT AND REMOVE THE EXISTING 12" ROOF VENT. INSTALL A NEW 30" DIAMETER PENETRATION, STEEL COLLAR, AND FLANGE, AND FURNISH AND INSTALL THE NEW VENT AND FLANGE GASKET. DISPOSE OF THE EXISTING ROOF VENT.
2. CONTRACTOR SHALL ENSURE THE NEWLY FURNISHED FLANGE IS COMPATIBLE WITH THE VENT TO BE FURNISHED (FLANGE BOLT HOLE PATTERNS ALIGN). PROVIDE 1/8-INCH THICK FLANGE GASKET, GALVANIZED BOLTS (TWO WITH LOCKING CAPABILITIES), AND DIELECTRIC ISOLATION KITS (ISOLATION WASHERS AND SLEEVES).
3. CONTRACTOR SHALL ENSURE VENT SCREEN IS NO. 24 MESH, AND SHALL INCLUDE PRESSURE AND VACUUM RELIEF AND ALL OTHER ITEMS AS SPECIFIED IN SECTION 33 16 13.13 PART 2.2. VENT SHALL BE MODEL #503 ALUMINUM 30 AST AS MANUFACTURED BY ADVANCE TANK AND CONSTRUCTION, OR APPROVED EQUAL.

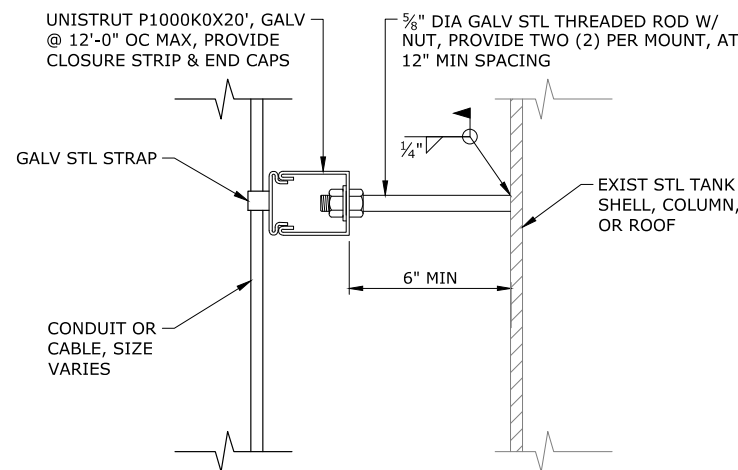
VENT REPLACEMENT

SCALE: NTS



EXISTING ROOF AND ANTENNA SCAFFOLDING

SCALE: NTS

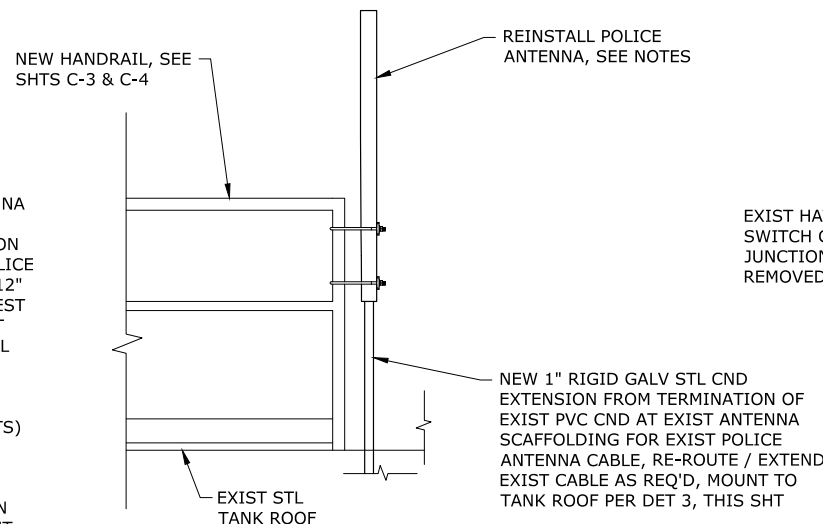


NOTES:

1. MOUNTING BRACKETS HAVE TWO STUDS PER MOUNT, SPACED 12" APART.
2. INSTALL DUAL STUDS AND UNISTRUT ALONG COLUMNS OR TANK AS DESCRIBED THROUGHOUT DRAWINGS AT 12" MAXIMUM SPACING.

CONDUIT MOUNTING BRACKET

SCALE: NTS



NOTES:

1. THE EXISTING POLICE ANTENNA SHALL BE RE-MOUNTED TO THE NEW HANDRAIL IN THE LOCATION SHOWN ON SHEET C-3. THE POLICE ANTENNA SHALL BE MOUNTED 12" HIGHER THAN THE APEX (HIGHEST POINT) OF THE NEW ROOF VENT FOR CLEAR VISIBILITY FROM ALL SIDES.
2. THE EXISTING ANTENNA MOUNTING HARDWARE (U-BOLTS) SHALL BE RE-USED.
3. PROVIDE UV-RESISTANT GASKETING MATERIAL BETWEEN HANDRAIL AND ANTENNA MOUNT FOR PROTECTION OF COATINGS.

SIDE ELEVATION

POLICE ANTENNA MOUNT

SCALE: NTS



EXIST HATCH INTRUSION SWITCH CABLE AND JUNCTION BOX TO BE REMOVED AND DISCARDED



NOTES:

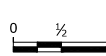
1. PROTECT ALL EXISTING CELLULAR EQUIPMENT, CABLES, AND CONDUITS AT ALL TIMES.
2. REINSTALL UNISTRUT CATWALK CONDUIT CROSSING WITH MINIMUM 6'-8" VERTICAL CLEARANCE FROM CATWALK. EXTEND UNISTRUT AS NEEDED FOR VERTICAL CLEARANCE OR TO MATCH HEIGHT OF UPPER LADDER STANDOFFS.

CATWALK CONDUIT CROSSING

SCALE: NTS



NOTICE



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

KAU
DESIGNED
EJJ
DRAWN
JHF
CHECKED



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WOODBURN
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**WATER TOWER
REPAINTING AND
IMPROVEMENTS
PROJECT**

DETAILS - 2

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