



## **GENERAL NOTES**

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - T-MOBIL F
- 2. THIS FACILITY IS AN UNMANNED WIRELESS COMMUNICATION EQUIPMENT FACILITY.
- 3. PRIOR TO SUBMISSION OF BIDS, THE BIDDING CONTRACTOR/SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE T-MOBILE CONSTRUCTION MANAGER AND ENGINEER/A&E FIRM.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BID, ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH WORK.
- 5. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION, INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAVE NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECTIENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIVE THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT/ENGINEER RESPONSIBLE OF THE PROJECT.
- 6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER AND T-MOBILE. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING DAMAGED AREAS.
- 7. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPLACING OR REPAIRING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT UTILITY LOCATE SERVICE @ 811.
- 8. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE ALL CONTRACTOR SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE AND ACCEPTED BY THE PROJECT OWNER.
- 10. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- 11. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST BUILDING CODE AND ALL OTHER GOVERNING CODES. WHERE DISCREPANCIES ARISE THE MOST RESTRICTIVE CODE SHALL GOVERN.
- 12. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
- 13. STORED MATERIALS SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
- 14. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, AND TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
- 15. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED.
- 16. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
- 17. THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75 FEET OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
- 18. MATERIALS TESTING SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
- 19. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- 20. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
- 21. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY CONSTRUCTION EFFORT AS REQUIRED BY THE GOVERNING AGENCY.
- 22. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT BE NOTIFIED FOR CLARIFICATIONS.
- 23. UNLESS OTHERWISE NOTED THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 24. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES: REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLICA UTHORITY REGARDING THE PERFORMANCE OF THE WORK ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 25. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 26. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- 27. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND 11 CABLES, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- 28. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNERS DESIGNATED LOCATION.
- 29. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) 301.
- 30. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A38 (FY = 36KS)) UNLESS OTHERWISE NOTED. PIPPS SHALL BE ASTM A53 TYPE E (FY = 35KSI). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH-UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- 31. CONSTRUCTION SHALL COMPLY WITH "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF T-MOBILE SITES."

- 32. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION, ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH T-MOBILE. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MINIGHT
- 33. SINCE THE CELL SITE IS ACTIVE, ALL THE SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- 34. APPLICABLE BUILDING CODES: SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, FOURTEENTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL
- ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN, WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN

## SITE WORK

- 1. THE PREPARATION OF THE SITE FOR CONSTRUCTION SHALL INCLUDE THE REMOVAL OF ALL BROKEN CONCRETE, TREE TRUNKS, AND ANY OTHER DEBRIS THAT WOULD BE DAMAGING TO THE FOOTINGS OF THE NEW STRUCTURE.
- 2. BACKFILLING AT THE NEW TRENCHES SHALL BE OF CLEAN, MEETING THE REQUIREMENTS OF (AASHTO NO. 89) GRANULAR MATERIAL SOIL BACKFILLING SHALL BE DONE IN 8 INCH LAYERS, MOISTURE CONDITIONED AND PROPERLY COMPACTED TO SPECIFIED COMPACTION PERCENTAGE PER ASTM D1557 (90% MIN). ADEQUATE DRAINAGE SHALL BE PROVIDED SUCH THAT NO PONDING OCCURS AFTER.
- 3. ALL FOUNDATION FOOTINGS SHALL EXTEND INTO AND BEAR AGAINST NATURAL UNDISTURBED SOIL OR APPROVED COMPACTED FILL. FOOTINGS SHALL EXTEND INTO SOIL DEPTH INDICATED ON DETAILS.
- 4. SHOULD ANY LOOSE FILL, EXPANSIVE SOIL, GROUND WATER OR ANY OTHER DANGEROUS CONDITIONS BE ENCOUNTERED DURING THE EXCAVATION FOR THE NEW FOUNDATION, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER OR OWNERS REPRESENTATIVE AND ALL FOUNDATION WORK SHALL CEASE IMMEDIATELY.

## SITE STORM WATER RUNOFF CONTROL

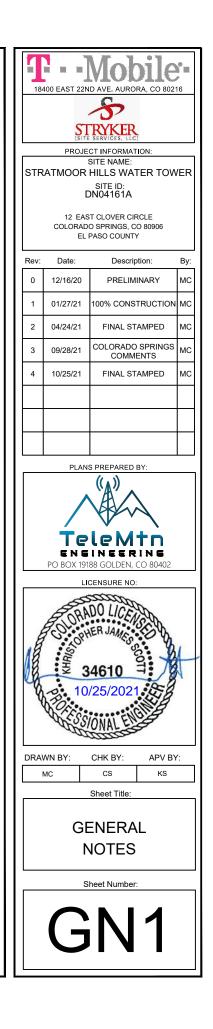
- 1. SUFFICIENT BMP'S MUST BE IMPLEMENTED TO PREVENT SILT, MUD, OR OTHER CONTRACTOR DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEM DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONTRACTOR ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREECH IN THE INSTALLED CONTRACTOR BMP'S.
- 2. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED INTO PLACE IN THE SITE.
- 3. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
- ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONTRACTOR ACTIVITY MUST BE PROTECTED AGAINST EROSION & SEDIMENT TRANSPORT AT ALL TIMES.
- 5. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

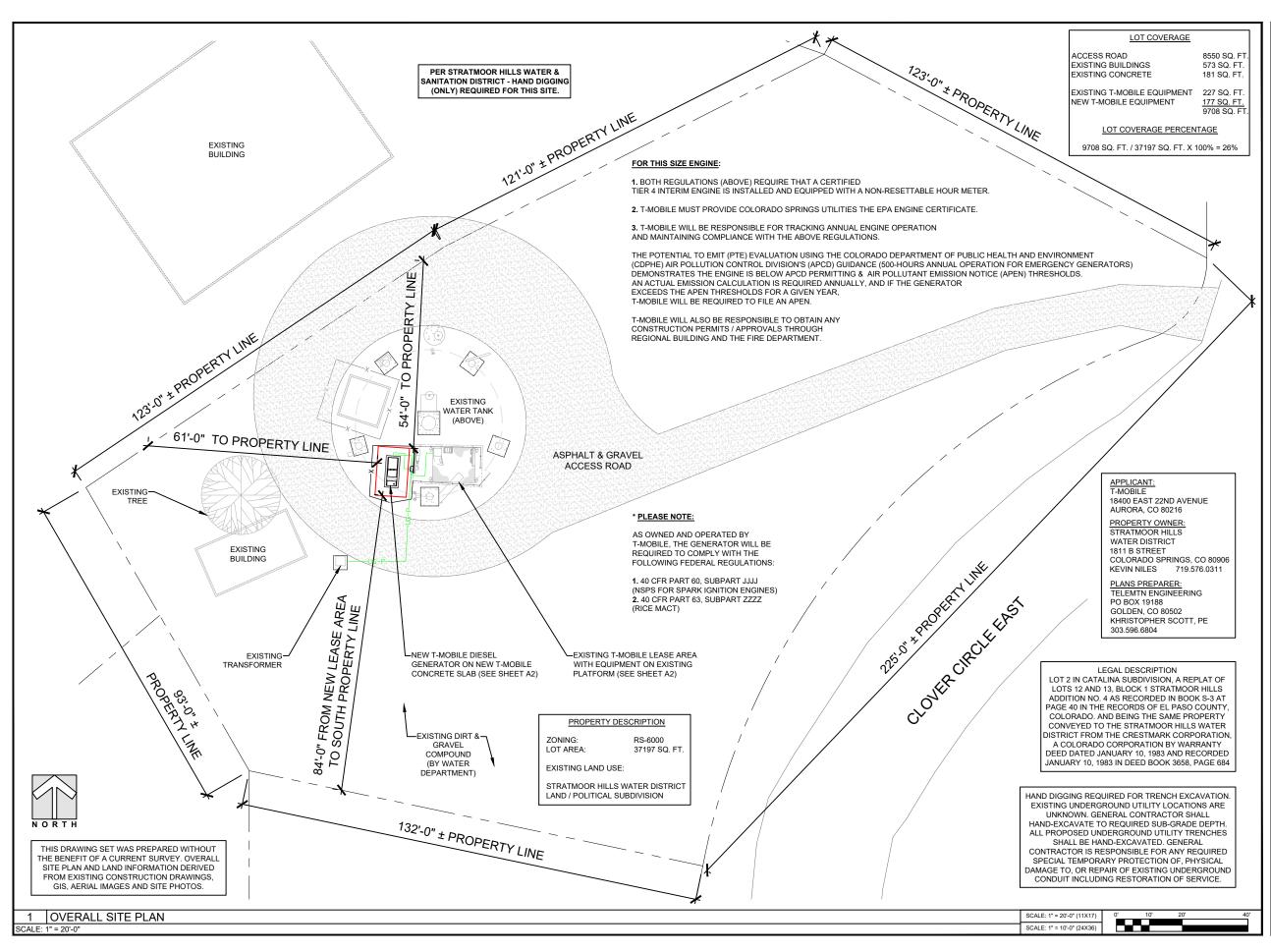
## NATURAL GAS PIPING

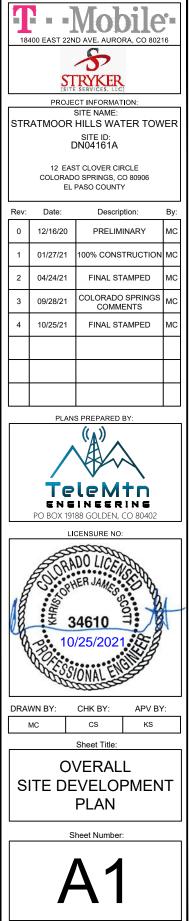
- ALL WORK SHALL COMPLY WITH MECHANICAL CODE, NFPA 54, "NATIONAL FUEL GAS CODE" & APPLICABLE PARTS OF NFPA 58, "LIQUEFIED PETROLEUM GAS CODE" & NFPA 70, "NATIONAL ELECTRICAL CODE" FOR ELECTRICAL CONNECTIONS BETWEEN WIRING AND ELECTRICALLY OPERATED CONTROL DEVICES.
- 2. ABOVE GROUND PIPE SHALL BE ASTM A54 STEEL PIPE, TYPE E, ELECTRIC-RESISTANCE WELDED OR TYPE S, SEAMLESS; GRADE B SCHEDULE 40; BLACK.
- FITTINGS SHALL BE MALLEABLE-IRON THREADED FITTINGS, ASME B16.3, CLASS 150 STANDARD PATTERN, WITH THREADED ENDS CONFORMING TO ASME B1.20.1.
- 4. UNDERGROUND PIPING SHALL BE SDR 11 POLYETHYLENE PLASTIC PIPE, TUBING AND FITTINGS IN CONFORMANCE WITH THE 2009 EDITION OF ASTM D 2513.
- 5. JOINT COMPOUND AND TAPE SHALL BE SUITABLE FOR NATURAL GAS.
- 6. VALVES SHALL BE ASME B16.33, 150 PSIG WOG, BRONZE BODY, BRONZE PLUG, SQUARE HEAD, TAPERED-PLUG TYPE, WITH THREADED ENDS CONFORMING TO ASME B1.20.1.
- 7. CLOSE EQUIPMENT SHUTOFF VALVES BEFORE TURNING OFF GAS TO PREMISES OR SECTION OF PIPING. PERFORM LEAKAGE TESTING TO DETERMINE THAT ALL EQUIPMENT IS TURNED OFF IN THE AFFECTED PIPING SECTION.
- 8. INSTALL SHUTOFF VALVE, DOWNSTREAM FROM GAS METER, OUTSIDE BUILDING AT GAS SERVICE ENTRANCE.

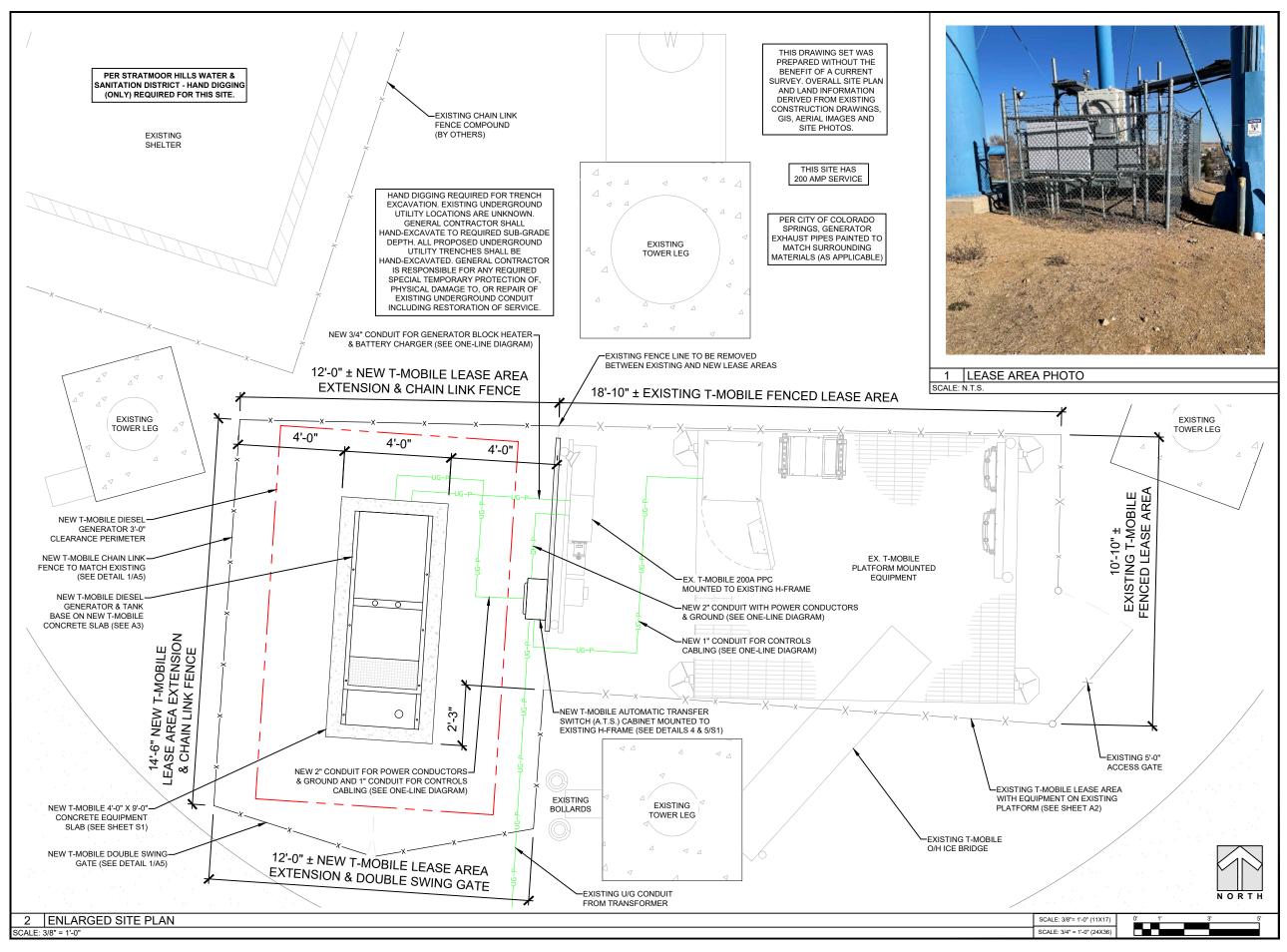
#### 9. PIPING INSTALLATIONS:

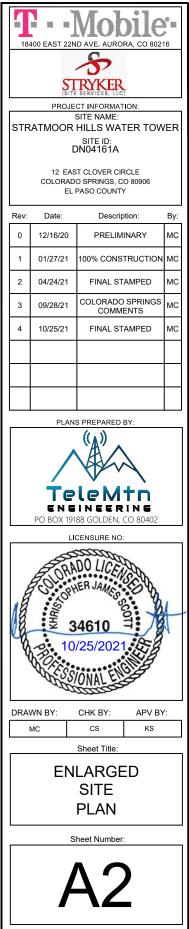
- CONCEALED LOCATIONS: EXCEPT AS SPECIFIED BELOW, INSTALL CONCEALED GAS PIPING IN AIRTIGHT CONDUIT CONSTRUCTED OF SCHEDULE 40, SEAMLESS, BLACK STEEL PIPE OR SCHEDULE 40, PVC DWV PIPE WITH WELDED JOINTS. VENT CONDUIT TO OUTSIDE AND TERMINATED WITH SCREENED VENT CAP. INSTALL AS SHOWN ON DRAWINGS.
- ABOVE CEILING LOCATIONS: GAS PIPING MAY BE INSTALLED IN ACCESSIBLE SPACES, SUBJECT TO APPROVAL OF AUTHORITIES HAVING JURISDICTION, WITHER OR NOT SUCH SPACES ARE USED AS PLENUMS. DO NOT LOCATED VALVES IN SUCH SPACES.
- IN WALLS: GAS PIPING WITH WELDED JOINTS AND PROTECTIVE WRAPPING MAY BE INSTALLED IN MASONRY WALLS, SUBJECT TO APPROVAL OF AUTHORITIES HAVING JURISDICTION.
- IN VERTICAL PIPE CHASES: CHASES SHALL NOT CONTINUE ABOVE CEILINGS.
- PROHIBITED LOCATIONS: DO NOT INSTALL GAS PIPING IN WALLS OR UNDER FLOORS, EXCEPT IN ACCESSIBLE ABOVE CEILING SPACES AS SPECIFIED ABOVE, TURNING PASSING THROUGH PARTITIONS OR WALLS; AND IN VENTED SLEEVES AS INDICATED ABOVE AND ON DRAWINGS.











# RD048 | 3.4L | 48 kW INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

# GENERAC INDUSTRIAL

## Standby Power Rating

48 kW, 60 kVA, 60 Hz

#### TANK SPECIFICATIONS

Total Size (gallons/liters)	34/128.7 - 15 & 20 kW 62/234.7 - 30, 48 & 50 kW
Usable Size (gallons/liters)	32/121.1 - 15 & 20 kW 57/215.8 - 30, 48 & 50 kW
Run Time @ 1/2 Load (hrs)	41 - 15 kW 31 - 20 kW 38 - 30 kW 25 - 48 & 50 kW
Listings	UL142 ULC-S601



Closed Recovery

Ultra Low Sulfur Diesel Fuel

Mechanical Engine Driven Gear

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3 SCA

Pusher

2,029

ASTM

25

Mechanical

7.94/0.31 (ID)

7.94/0.31 (ID)

22 (559)

Cooling System

Fan Speed- rpm

Fuel System

**Fuel Specification** 

Fuel Pump Type

Fuel Supply Lin (mm/in)

Fuel Return Line (mm/in)

Fuel Filtering (microns)

njector Type

Fuel Type

Fan Type

Cooling System Type

Fan Diameter - in (mm)

## ENGINE SPECIFICATIONS

#### General

Make	Gemerac
Cylinder #	4
Туре	In-Line
Displacement - in <sup>3</sup> (L)	3.4 (207.48)
Bore - in (mm)	3.86 (98)
Stroke - in (mm)	4.45 (113)
Compression Ratio	18.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head	Cast Iron OHV
Piston Type	Aluminum

#### Engine Governing

SCALE: NOT TO SCALE

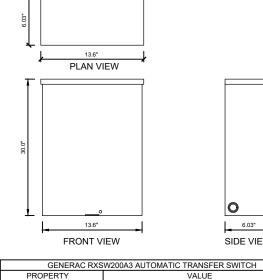
Governor Electronic Frequency Regulation (Steady State) ±0.25%

1 DIESEL GENERATOR SPECIFICATIONS

## failed and an American

Dil Filter Type	Full Flow Spin-On Canister
Crankcase Capacity with Filters- qt (L)	7.4 (7.0)

Engine Electrical System		
System Voltage	12 VDG	
Battery Charger Alternator	Standard	
Battery Size	Group 27F	
Battery Voltage	12 VDC	
Ground Polarity	Negative	



GENERAC RASW200AS AUTOWATIC TRANSFER		
VALUE		
200		
120/240, 1Ø		
OPEN TRANSITION SERVICE R		
NEMA/UL 3R		
UL		
22,000 AMPS		
250 MCM - #6		
30.0"		
13.6"		
6.03"		
39 LBS		
NOTES: SERVICE RATED (RXSW) SWITCHES ARE		
NEMA/UL TYPE 3R ENCLOSURE.		

#### 2 AUTOMATIC TRASFER SWITCH (A.T.S.) SPECIFICATIONS SCALE: NOT TO SCALE

1. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE FROM RADIATOR IS NOT RECIRCULATED.

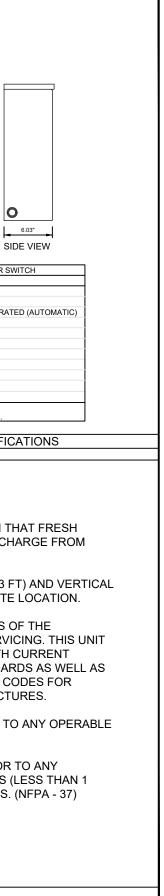
2. RECOMMENDED MINIMUM PERIMETER (3 FT) AND VERTICAL OVER EXHAUST (5 FT) CLEARANCE FOR SITE LOCATION.

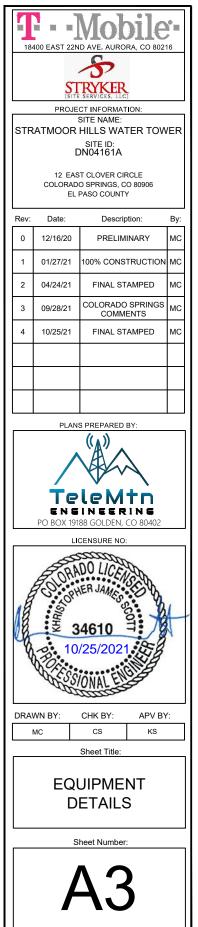
3. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES FOR MINIMUM DISTANCES FROM OTHER STRUCTURES.

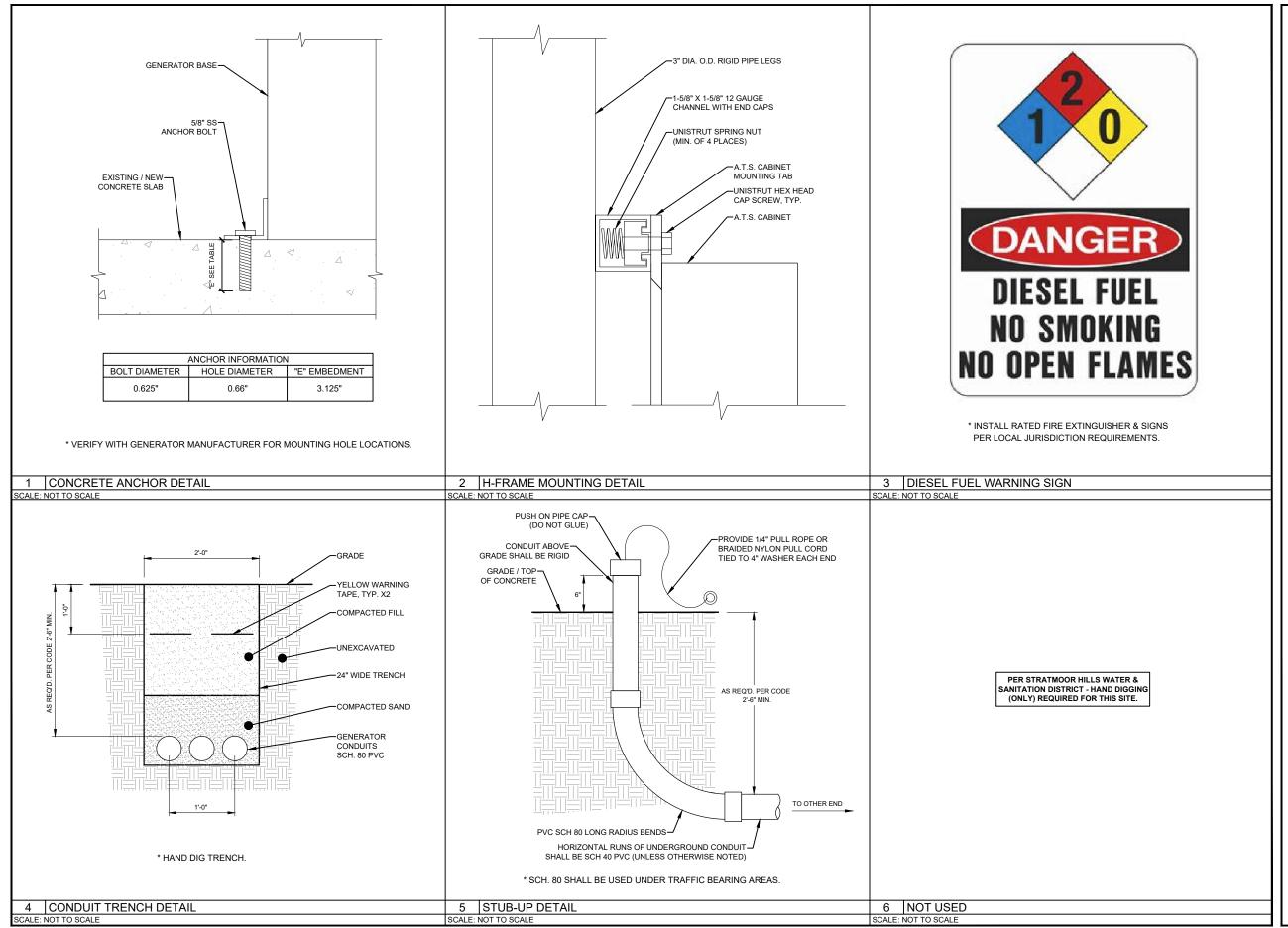
4. 10' MINIMUM DISTANCE FROM EXHAUST TO ANY OPERABLE OPENING IN A BUILDING. (IMC-09)

5. 5' MINIMUM DISTANCE FROM GENERATOR TO ANY STRUCTURE HAVING COMBUSTIBLE WALLS (LESS THAN 1 HOUR RATED) OR ANY OPENINGS IN WALLS. (NFPA - 37)

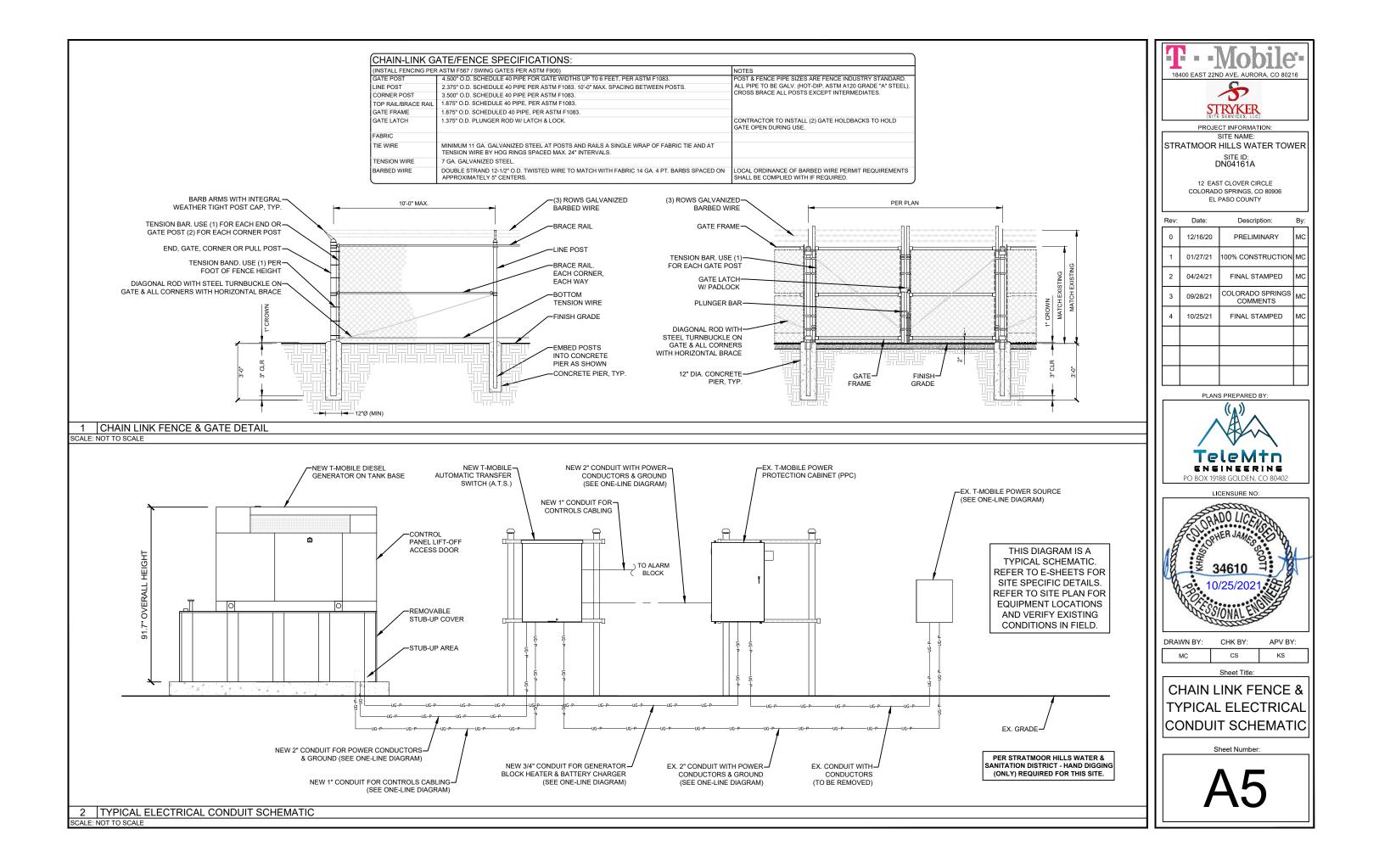
3	GENERATOR NOTES
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		SITE ID: DN04161A			
	COLORAD	T CLOVER CIRCLE O SPRINGS, CO 80906 PASO COUNTY			
Rev:	Date:	Description:	By:		
0	12/16/20	PRELIMINARY	мс		
1	01/27/21	100% CONSTRUCTION	мс		
2	04/24/21	FINAL STAMPED	мс		
3	09/28/21	COLORADO SPRINGS COMMENTS	мс		
4	10/25/21	FINAL STAMPED	мс		
	PLANS	S PREPARED BY:			
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#### **CONCRETE & REINFORCING STEEL NOTES**

- 1. ALL CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI 318) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND (AC1 301) STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACIW301, ACIW318, ASTM A184 AND ASTM A185.
- 2. MINIMUM ALLOWABLE CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS METHODS STANDARDS ASTM C172, ASTM C31 AND ASTM C39 UNLESS NOTED OTHERWISE.
- 3 REINFORCING STEEL SHALL CONFORM TO ASTM 4615 GRADE 60 DEFORMED UNLESS NOTED OTHERWISE. WELDING WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNLESS OTHERWISE NOTED.
- 4. DETAILING SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES (ACI STD-318/SP-66(04): ACI DETAILING MANUAL - 2004. 5. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" IN ACCORDANCE WITH ACI 301 SECTION 4.2.2
- UNLESS OTHERWISE NOTED. 6. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON THE DRAWINGS, CONCRETE COVER SHALL BE 3" MINIMUM.
- 7. TOP OF FOUNDATION TO HAVE A "BRUSH FINISH"
- 8. EXPOSED FINISH SURFACE IS NOT TO HOLD WATER.
- 9. ALL SURFACES ARE TO BE CLEANED OF ANY RESIDUAL CONCRETE FROM SPLASHING OR SPILLS.

#### SOIL COMPACTION FOR SLAB ON GRADE NOTES

- 1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL, EXPOSE UNDISTURBED NATURAL SUBGRADE, AND PLACE CRUSHED STONE AS REQUIRED.
- 2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL OR ENGINEER IS ACCEPTABLE
- 3. AS AN ALTERNATIVE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 95% STANDARD PROCTOR MAXIMUM DENSITY PER ASTM D 698.
- 4. COMPACTED SUB BASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED TO 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.
- 5. AS AN ALTERNATIVE TO ITEMS 2 & 3, PROOF ROLL THE SUB GRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUP VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADEDE GRANULAR FILL AND BE COMPACTED AS STATED ABOVE.

#### SOIL COMPACTION EQUIPMENT

1 STRUCTURAL NOTES

1-5/8"-UNISTRUT

NEW T-MOBILE-

A.T.S. CABINET

CHANNEL WITH END CAPS

4 H-FRAME PLAN

SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

1. HAND-OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR

TUBING CLAMP

WITH RUBBER

CUSH-A-CLAMP ASSEMBLY

2'-0" MAX

2.5" SCH 40-

PIPE LEGS



