

CITY OF STAMFORD TRANSFER STATION

STAMFORD, CONNECTICUT

REPAIRS TO THE TRANSFER STATION TIPPING FLOOR

SEPTEMBER 2017

BID DOCUMENTS

MAYOR

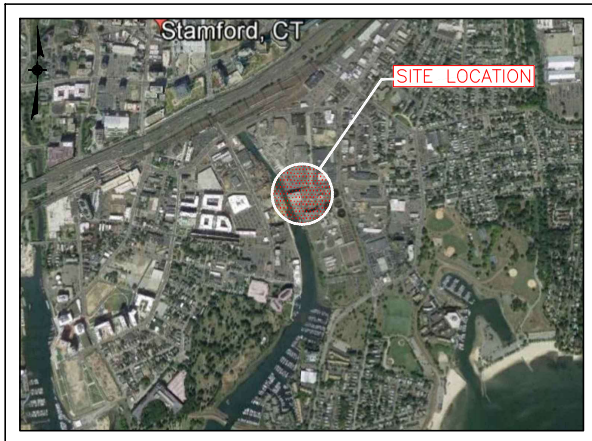
DAVID R. MARTIN

ENGINEERING BUREAU

LOUIS A. CASOLO, JR., P.E. CITY ENGINEER

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VICINITY MAP


N.T.S.



LOCATION MAP

N.T.S.

1. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO REVISIONS AS PER ACTUAL FIELD CONDITIONS, AND AT THE DISCRETION OF AND DIRECTED BY THE OWNER.
2. THE CONTRACTOR SHALL INSPECT THE SITE AND MAKE ALL APPROPRIATE INQUIRIES TO DETERMINE ACTUAL CONDITIONS PRIOR TO SUBMISSION OF BIDS, AND SHALL MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
3. ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND CITY REQUIREMENTS. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
4. THE CONTRACTOR SHALL DETERMINE AND VERIFY THE ACTUAL LOCATION OF ANY AND ALL UTILITIES, PIPES, AND RELATED ITEMS PRIOR TO COMMENCEMENT OF WORK. ALL COST INCURRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. EXPANSION OF THE CONSTRUCTION SITE TO AREAS NOT DESIGNATED WITHIN THE LIMITS ON THESE PLANS WILL NOT BE PERMITTED UNLESS AUTHORIZED BY THE OWNER. THE CONTRACTOR SHALL SECURE THE CONSTRUCTION SITE IN ACCORDANCE WITH ALL APPLICABLE SAFETY STANDARDS.
6. THE CONTRACTOR SHALL REMOVE DAILY, ALL DEBRIS AND EXCESS CONSTRUCTION MATERIALS, TO THE SATISFACTION OF THE OWNER AND ENGINEER.
7. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OWNER AND THE ENGINEER, TO MINIMIZE INTERRUPTIONS TO NORMAL OPERATIONS.
8. THE CONTRACTOR SHALL SUBMIT DETAILED WORK PLAN INCLUDING SEQUENCE OF OPERATIONS AND DURATION OF TEN (10) DAYS PRIOR TO COMMENCING WORK AND SHALL BE SUBJECT TO APPROVAL OF THE OWNER.
9. ITEMS SUSTAINING DAMAGE DURING CONSTRUCTION THROUGH THE NEGLIGENCE OF THE CONTRACTOR SHALL BE REPAIRED AND / OR REPLACED TO THE SATISFACTION AND APPROVAL OF THE OWNER AT THE CONTRACTORS EXPENSE.
10. THE OWNER RESERVES THE RIGHT TO REQUEST THAT MATERIALS BE TESTED BY AN APPROVED LABORATORY DURING THE COURSE OF THE PROJECT. THE CONTRACTOR SHALL BEAR THE EXPENSE OF TESTED MATERIALS NOT CONFORMING TO SPECIFICATIONS.
1. THE CONTRACTOR SHALL VERIFY AND /OR DETERMINE ANY AND ALL TOPOGRAPHIC DATA NECESSARY TO COMPLETE THE WORK, THE CONTRACTOR SHALL BEAR THE EXPENSE OF DATA ACQUISITION AND VERIFICATION.
2. THE CONTRACTOR SHALL FURNISH TO THE OWNER, IN A FORM ACCEPTABLE TO THE OWNER BEFORE PAYMENT, THE COMPLETE REPRODUCED SET OF "AS-BUILT DRAWINGS" (ELECTRONIC FILE, MYLAR AND THREE (3) SETS OF BLUELINE PRINTS), DRAWINGS SHALL BE CORRECTED TO SHOW WORK AS ACTUALLY BUILT, WITH PARTICULAR ATTENTION TO THE CORRECTION OF WORK. IF ANY DISCREPANCY, THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE NECESSITY OF KEEPING ACCURATE RECORDS OF ALL CONCEALED WORK SO THAT "AS-BUILT" DRAWINGS WILL CONTAIN THIS INFORMATION IN CORRECT DETAIL AND LOCATION.
3. THE CONTRACTOR SHALL AT ALL TIMES, PROVIDE CONVENIENT ACCESS SAFE AND PROPER FACILITIES FOR THE INSPECTION OF ALL PARTS OF THE WORK. NO WORK, EXCEPT SHOP WORK MAY BE SO PERMITTED, SHALL BE DONE EXCEPT WITH THE CONSENT OF THE OWNER OR A REPRESENTATIVE THEREOF.
4. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRESERVE THE MATERIAL BELOW, AND BEYOND THE LINES OF ALL EXCAVATION IN THE SOUNDNEST POSSIBLE CONDITION, ANY DAMAGE TO THE WORK DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE EXPENSE OF AND BY THE CONTRACTOR TO THE SATISFACTION AND APPROVAL OF THE OWNER.
5. NO MATERIALS OF ANY KIND SHALL BE USED UPON WORK UNTIL, IT HAS BEEN INSPECTED AND ACCEPTED BY THE OWNER. ALL MATERIALS RELEASED FROM WORK BE IMMEDIATELY REMOVED FROM THE WORK SITE AND NOT AGAIN OFFERED FOR INSPECTION.
6. ANY MATERIALS OR WORKMANSHIP FOUND AT ANY TIME TO BE DEFECTIVE SHALL BE REMEDIED AT ONCE, REGARDLESS OF PREVIOUS INSPECTION, THE INSPECTION AND OBSERVATION OF THE WORK BY THE ENGINEER, WILL NOT EXEMPT THE CONTRACTOR IN APPLYING LABOR AND MATERIAL TO AND IN ACCORDANCE WITH THE SPECIFICATION, BUT SUCH INSPECTION SHALL NOT RELEASE THE CONTRACTOR FROM ANY OF THE CONTRACTOR OBLIGATIONS.
7. THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER SO AS TO POSE NO DANGER OR HAZARDS TO PERSONS OR PROPERTY, WHERE NECESSARY, TEMPORARY SHIELDS OR OTHER PROTECTIVE DEVICES MUST BE UTILIZED. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE AND EXPENSE FOR ANY AND ALL SAFETY MEASURES, THE USE OF EXPLOSIVES IS STRICTLY PROHIBITED, THE CONTRACTOR SHALL COMPLY WITH ALL OSHA AND NEW YORK STATE DEPARTMENT OF LABOR REQUIREMENTS.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY INSURANCE AND BONDS AS REQUIRED BY THE OWNER.
9. THE TERM "OWNER" REFERS TO THE CITY OF STAMFORD TRANSFER STATION DESIGNATED REPRESENTATIVE.
10. THE TERM "ENGINEER" REFERS TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
1. THE OWNER'S NOTIFICATION TO THE CONTRACTOR TO PROCEED WITH THE WORK SHALL SUFFICE AS THE CONTRACTOR'S ACCEPTANCE OF TERMS SPECIFIED HEREIN, AND SHALL BE INCORPORATED INTO ANY AND ALL AGREEMENTS BETWEEN OWNER AND CONTRACTOR.
2. THE CONTRACTOR SHALL HAVE A COMPETENT REPRESENTATIVE OR FOREMAN PRESENT WHO SHALL FOLLOW, WITHOUT DELAY, ALL INSTRUCTIONS OF THE ENGINEER OR HIS/HER ASSISTANT(S). THE PROSECUTION AND COMPLETION OF THE WORK IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL HAVE FULL AUTHORITY TO SUPPLY LABOR AND MATERIAL IMMEDIATELY. THE CONTRACTOR SHALL ALSO HAVE A COMPETENT REPRESENTATIVE AVAILABLE TO RECEIVE TELEPHONE MESSAGES AND PROVIDE A REASONABLE REPLY AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS.

								CITY OF STAMFORD FAIRFIELD COUNTY CONNECTICUT		PROJECT NO. 3706		DRAWING NO. G1	
				PROJECT ENGINEER: STM		DRAWN BY: KA		STAMFORD TRANSFER STATION		GENERAL NOTES GENERAL		DATE: SEPTEMBER 2017	
				DESIGNED BY: STM		CHECKED BY: TP						SCALE: AS NOTED	
NO.	DATE	REVISION	INT.										

ABBREVIATIONS

(A)	ABANDONED	HP	HORSEPOWER
ADD.	ADDITIONAL	HWR	HOT WATER RETURN
AFF	ABOVE FINISHED FLOOR	HWS	HOT WATER SUPPLY
AIC	AMPERE INTERRUPTING CAPACITY	HYP	HYPOCLORITE
ALUM	ALUMINUM	ID	INSIDE DIAMETER
AOBE	AS ORDERED BY ENGINEER	IJ	ISOLATION JOINT
ARV	AIR RELEASE VALVE	INF	INFLUENT
AT	ASTRONOMIC TIMER	INT	INTERIOR
B, BOT	BOTTOM	INV.	INVERT ELEVATION
BC	BOTTOM OF CURB	LB, #	POUNDS
BF	BLIND FLANGE	LF	LINEAR FEET
BFV	BUTTERFLY VALVE	LP	LOW POINT
BLW	BLOWOFF	LS	LIMIT SWITCH
BM	BEAM	MAX	MAXIMUM
BP, BYP	BY PASS	MCC	MOTOR CONTROL CENTER
BPWW	BACKWASH WATER	MECH	MECHANICAL
BV	BALL VALVE	MFG	MANUFACTURER
BWW	BELT PRESS WASH WATER	MH	MANHOLE
C	CONDUIT OR CONDENSATE	MIN	MINIMUM
CL	CLEARANCE OF CENTERLINE	MJ	MECHANICAL JOINT
C.I.	CAST IRON	MO	MASONRY OPENING
C.O.	CLEAN OUT	MOPO	MAINTENANCE OF PLANT OPERATIONS
CB	CIRCUIT BREAKER/CATCH BASIN	MWR	MUDWELL RETURN
CCT	CHLORINE CONTACT TANK	NC	NORMALLY CLOSED
CHL	CHLORINE	N.E.C.	NATIONAL ELECTRICAL CODE
CJ	CONSTRUCTION JOINT	NO	NUMBER OR NORMALLY OPEN
COL	COLUMN	NTS	NOT TO SCALE
CMJ	CONCRETE MASONRY UNIT	OC, CVC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONT	CONTINUE CONTINUOUS	OE	OVERHEAD ELECTRIC
CP	CONTROL PANEL	OF	OUTFALL
CPT	CONTROL POWER TRANSFORMER	OPNG	OPENING
CR	CORROSION RESISTANT	OT	OVERHEAD TELEPHONE
CU	COPPER	OVF	OVERFLOW
CV	CHECK VALVE	PB	PULLBOX
D	DRAIN	PD	PLANT DRAIN
DET	DETAIL	PE	PLANT EFFLUENT
DFB	DENITE FILTER BACKWASH	PL	PLATE OR PROPERTY LINE
DPE	DENITE FILTER EFFLUENT	PLV	PLUG VALVE
DFI	DENITE FILTER INFLUENT	PS	PRESSURE SWITCH OR PRIMARY SLUDGE
DFB	DENITE FILTER INFLUENT BACKWASH	PVC	POLYVINYL CHLORIDE PIPE
DG	DIGESTER GAS	RAS	RETURN ACTIVATED SLUDGE
DI	DUCTILE IRON	RCP	REINFORCED CONCRETE PIPE
DA	DIAMETER	RD	ROOF DRAIN
DIS	DISCHARGE	REC	RECIRCULATION
DMH	DRAIN MANHOLE	RED	REDUCER
DPI	DIFFERENTIAL PRESSURE INDICATOR	REIN	REINFORCE, REINFORCING
DPS	DIFFERENTIAL PRESSURE SWITCH	REQD	REQUIRED
DS	DOOR MOUNTED SWITCH (INTRUSION ALARM)	RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
DSL	DIGESTED SLUDGE	RSL	RAW SLUDGE
DW(S)	DRAIN(S)	RSS	REDUCED VOLTAGE SOLID STATE STARTER
DWLS	DOWELS	S	SANITARY SEWER OR SEWAGE
E	ELECTRIC	SC	SCREENINGS OR SOUM
EA	EACH	SCH	SCHEDULE
EC	ELECTRICAL CONTRACTOR	SCW	SCRUBBER WATER
EE	EACH END	SFM	SLUDGE FORCE MAIN
EF	EACH FACE	SH	SODIUM HYDROXIDE
EFF	EFFLUENT	SL	SLUDGE
EH	ELECTRICAL HANDHOLE	SLW	SLUDGE WITHDRAWAL
EJ	EXPANSION JOINT	SN	SUPERNATANT
ELLE, EV	ELEVATION	SPECS	SPECIFICATIONS
ELL	ELBOW	SQ	SQUARE
EOP	EMERGENCY OVERFLOW	SQ FT, SF	SQUARE FEET
EP	EDGE OF PAVEMENT	STD	STANDARD
EQ	EQUAL	STN. STL./SS	STAINLESS STEEL
EQUIP	EQUIPMENT	STRUCT	STRUCTURAL
ES	EACH SIDE	SUC	SUCTION
ETC	ET CETERA	SV	SOLENOID VALVE
EW	EACH WAY	SWR	SCRUBBER WATER RETURN
EWI	ELECTRIC WATER HEATER	T	TELEPHONE
EXIST.	EXISTING	TAB	TOP AND BOTTOM
EXP	EXPANSION	TB	TERMINAL BOX
EXT	EXTERIOR	TDC	TIME DELAY CLOSE
EMH	ELECTRICAL MANHOLE	TDD	TIME DELAY OPEN
ELH	ELECTRIC UNIT HEATER	TDR	TIME DELAY RELAY
F	FLOW SWITCH	TC	TOP OF CURB
F.F./FIN, F.R.	FINISHED FLOOR	THERM	THERMIST
FRO	FURNISHED BY OTHERS	TOS	TOP OF STEEL
FON	FOUNDATION	TOW	TOP OF WALL
FE	FINAL EFFLUENT	TS	THICKENED SLUDGE
FI	FLOW INDICATOR	TYP	TYPICAL
FL	FILTRATE	UN.C	UNLESS OTHERWISE NOTED
FL	FLOOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
FM	FORCE MAIN	V	VENT
FR	FRACTIONAL HORSEPOWER	VERT	VERTICAL
FRP	FIBERGLASS REINFORCED PLASTIC	VFD	VARIABLE FREQUENCY DRIVE
FS	FLOAT SWITCH	VF	VERIFY IN FIELD
FTG	FOOTING	W	WATER
FVNR	FULL VOLTAGE NON-REVERSING STARTER	W	WITH
G	GAS	WAS	WASTE ACTIVATED SLUDGE
GALV	GALVANIZED	WP	WEATHER-PROOF
GC	GENERAL CONTRACTOR	WS	WATER SERVICE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	WW	WASTEWATER
GS	GAS SERVICE	WWF	WELDED WIRE FABRIC
GV	GATE VALVE		
HDPE	HIGH DENSITY POLYETHYLENE		
HCA	HAND-OFF/AUTOMATIC SWITCH		
HDE	HEAT/OFF-PEAK SWITCH		

CIVIL

---	1	EXISTING ELECTRICAL CONDUIT
---	2	NEW ELECTRICAL CONDUIT
---	3	EXISTING GAS MAIN
---	4	NEW GAS MAIN
---	5	SANITARY SEWER
---	6	EXISTING DRAIN
---	7	NEW DRAIN
---	8	EXISTING TELEPHONE
---	9	NEW TELEPHONE
---	10	EXISTING WATER MAIN
---	11	NEW WATER MAIN
---	12	NEW WATER SERVICE
---	13	NEW WATER SERVICE
---	14	FIBER OPTIC
---	15	PROPERTY LINE
---	16	NEW CHAIN LINK FENCE
---	17	EXISTING CHAIN LINK FENCE
---	18	TREE TRUNK DIAMETER
---	19	BENCH MARK
---	20	SOIL BORING AND NUMBER
---	21	ELECTRIC MANHOLE
---	22	SANITARY MANHOLE
---	23	TELEPHONE MANHOLE
---	24	DRAINAGE MANHOLE
---	25	FIRE HYDRANT/WALL HYDRANT
---	26	UTILITY POLE
---	27	NEW SPOT ELEVATION

CIVIL EXISTING

---	1	SPOT ELEVATION
---	2	TOP OF CURB ELEVATION
---	3	BOTTOM OF CURB ELEVATION
---	4	TREE
---	5	VEGETATION LINE (HEDGES, LARGE SHRUBS, ETC.)
---	6	TREE (EVERGREEN)
---	7	UTILITY POLE
---	8	LIGHT POLE
---	9	HOUSE NUMBER
---	10	SIGN
---	11	GAS VALVE
---	12	THERMOSTAT
---	13	GAS METER
---	14	WATER VALVE
---	15	WATER METER
---	16	HYDRANT
---	17	STORM DRAIN MANHOLE
---	18	DRAINAGE INLET
---	19	CATCH BASIN
---	20	SANITARY SEWER MANHOLE
---	21	ELECTRICAL MANHOLE
---	22	TELEPHONE MANHOLE
---	23	OTHER MANHOLE
---	24	TRAFFIC CONTROL BOX

ARCHITECTURAL/STRUCTURAL

---	1	EXISTING
---	2	EXISTING TO BE REMOVED (SEE NOTE 2)
---	3	NEW
---	4	NEW (HIDDEN)
---	5	NEW CONCRETE TOPPING
---	6	NEW BLOCK
---	7	GRATING
---	8	EARTH
---	9	NEW CONCRETE (SITE PLANS ONLY)
---	10	NEW PAVEMENT (SITE PLANS ONLY)
---	11	ANVIL TOPPING (EUCOFLOOR 404)
---	12	HIGH-STRENGTH CONCRETE TOPPING MIN. COMPRESSIVE STRENGTH = 6000 PSI

MISCELLANEOUS SYMBOLS

---	1	SECTION NO./ DETAIL LETTER
---	2	DRAWING NO. ON WHICH SECTION / DETAIL IS SHOWN
---	3	DRAWING NO. ON WHICH SECTION / DETAIL IS TAKEN
---	4	INDICATES EXISTING BUILDINGS, STRUCTURES AND FEATURES, ETC.
---	5	INDICATES PROPOSED BUILDINGS, STRUCTURES AND FEATURES, ETC.

CITY OF STAMFORD

FARFIELD COUNTY

CONNECTICUT

STAMFORD TRANSFER STATION

SYMBOLS AND ABBREVIATIONS

GENERAL

PROJECT NO.

3706

DATE:

SEPTEMBER 2017

SCALE:

AS NOTED

DRAWING NO.

G2



PROJECT ENGINEER:

STM

DRAWN BY:

KA

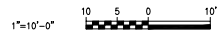
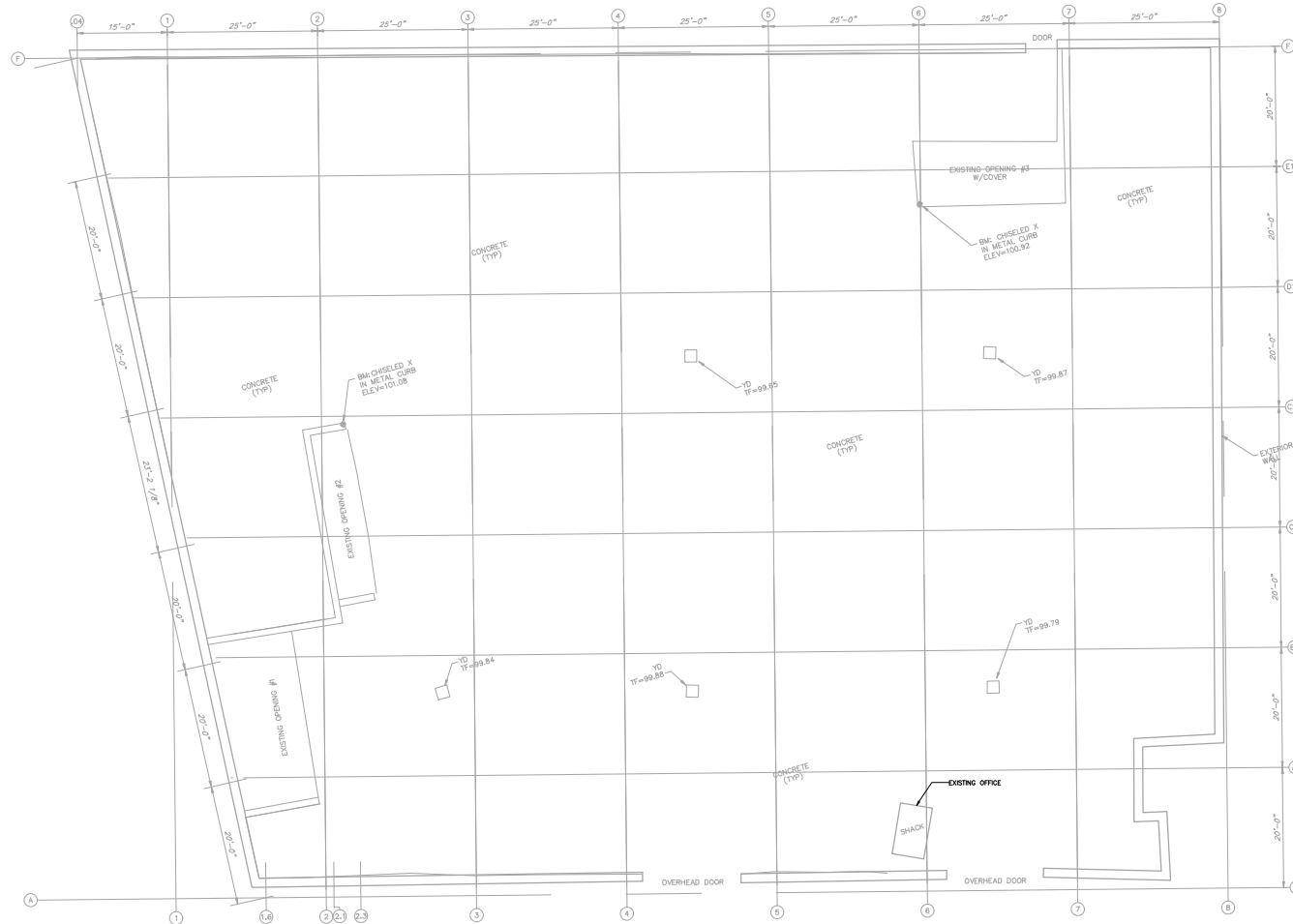
DESIGNED BY:

STM

CHECKED BY:

TP

NO.	DATE	REVISION	INT.



NO.	DATE	REVISION	INT.

PROJECT ENGINEER:	DRAWN BY:
STM	KA
DESIGNED BY:	CHECKED BY:
STM	TP

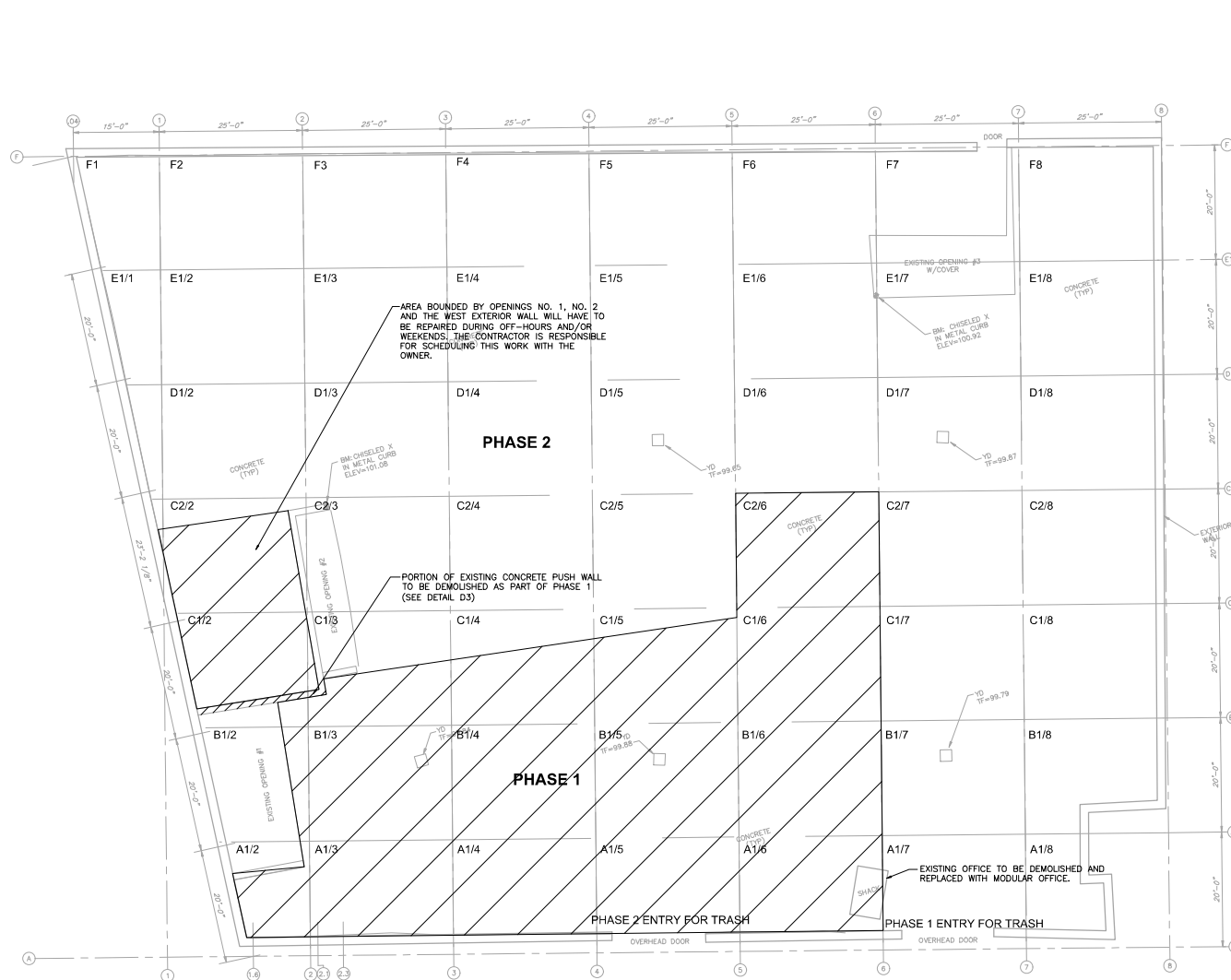


D&B ENGINEERS
AND
ARCHITECTS, P.C.

CITY OF STAMFORD	CONNECTICUT
FARFIELD COUNTY	
STAMFORD TRANSFER STATION	

EXISTING TIPPING FLOOR PLAN
CIVIL

PROJECT NO. 3706	DRAWING NO. C1
DATE SEPTEMBER 2017	
SCALE 1"=10'	



PHASE 1

PHASE 2

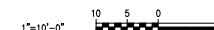
1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BARRIERS AND CONSTRUCTION NETTING TO CONTROL DUST AND DEBRIS IN AND OUT OF THE CONSTRUCTION AREA DURING EACH PHASE.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FLOOR DRAINS TO PREVENT ANY DEBRIS FROM ENTERING THEM AND TO PREVENT DAMAGE TO THE DRAIN PIPE CONNECTION TO THE TIPPING FLOOR.

THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS FOR APPROVAL BY THE OWNER, DESCRIBING THE METHODS FOR SEPARATING THE WIND BLOWN TRASH FROM THE CONSTRUCTION AREA, INCLUDING DESCRIPTIONS OF THE BARRIERS TO BE USED, THE METHODS OF INSTALLATION, THE LOCATION OF THE BARRIERS AND PREVENT WATER (LEACHATE) FROM ENTERING THE WORK AREA, AND THE METHODS FOR PREVENTING TRASH INCLUDING WIND BLOWN TRASH FROM ENTERING THE CONSTRUCTION AREA. THE CONTRACTOR SHALL BARRIERS WITH A HEIGHT OF UP TO SIX (6) FEET, WHICH ARE STABLE AND RESISTANT TO WIND. THE CONTRACTOR SHALL ALSO CONSIDER THE USE OF NETTING MATERIALS IN COMBINATION WITH THE BARRIERS AS A METHOD OF SEPARATING THE TRASH FROM BLOWN TRASH THAT MAY GO OVER THE TOP OF THE BARRIERS. BARRIERS AND NETTING SHALL BE REMOVED AS REQUIRED BY THE CONSTRUCTION FLOOR CONSTRUCTION AND PHASING PLAN.

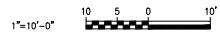
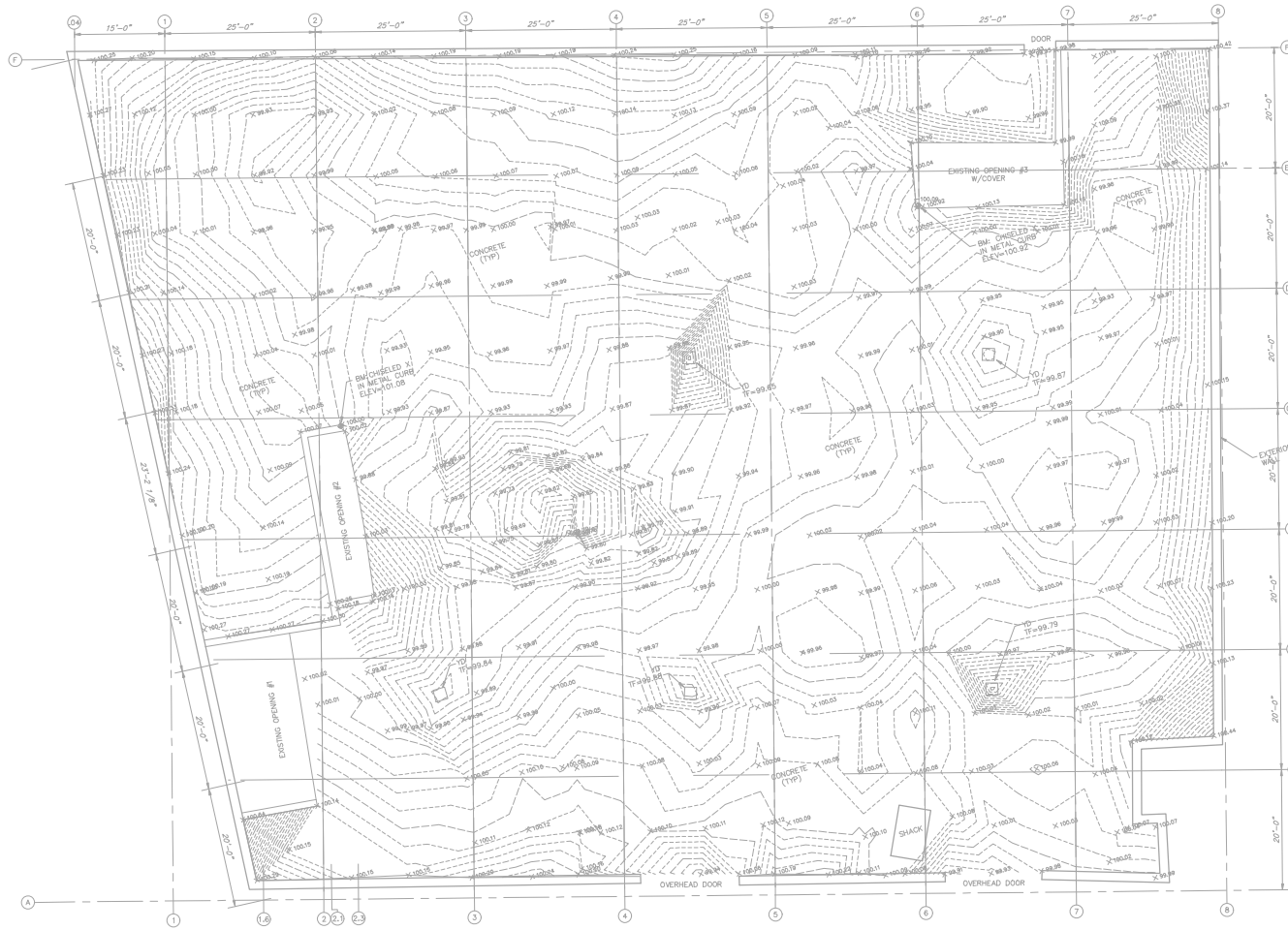
DETAILS OF THE BARRIERS AND OTHER MATERIALS WHICH WILL BE UTILIZED, WHICH MAY INCLUDE THE USE OF SUITABLE GROUTS, SEALANTS, BOOMS, ETC. AND DETAILS OF HOW THE WORK AREA WILL BE PROTECTED FROM TRASH MIGRATING OVER THE TOP OF THE BARRIERS MUST BE INCLUDED FOR APPROVAL IN CONTRACTOR SUBMITTALS. SAFETY ISSUES ASSOCIATED WITH THE USE OF THE BARRIERS MUST BE ADDRESSED IN CONTRACTOR'S HEALTH AND SAFETY PLAN. COSTS ASSOCIATED WITH THE INSTALLATION OF THE BARRIERS SHALL BE INCLUDED UNDER BID ITEM 1, MOBILIZATION AND DEMOBILIZATION.

1. TRANSFER STATION WILL BE OPERATED IN PHASE 2 AREA. PHASE 1 ENTRY WILL BE USED FOR OPERATIONS.
2. PARTIALLY DEMOLISH WALL 1 TIPPING FLOOR PER SPECIFICATION SECTION 01039,01039,01045,02050 AND ASSOCIATED SPECIFICATION SECTIONS.
3. PLACE ANVIL TOPPING AND CONCRETE TOPPING IN PHASE 1 AREA PER SPECIFICATION SECTION 03530 AND ASSOCIATED SPECIFICATION SECTIONS.
4. DEMOLISH WALL TO ACCESS OPENING #1

1. TRANSFER STATION WILL BE OPERATED IN PHASE 1 AREA. PHASE 2 ENTRY WILL BE USED FOR OPERATIONS.
2. PARTIALLY DEMOLISH PHASE 2 TIPPING FLOOR PER SPECIFICATION SECTION 01039,01045,02050 AND ASSOCIATED SPECIFICATION SECTIONS.
3. PLACE ANVIL TOPPING AND CONCRETE TOPPING IN PHASE 2 AREA PER SPECIFICATION SECTION 03530 AND ASSOCIATED SPECIFICATION SECTIONS.



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NO.	DATE	REVISION	INT.

PROJECT ENGINEER	DRAWN BY:
STM	KA
DESIGNED BY:	CHECKED BY:
STM	TP



D&B ENGINEERS
AND
ARCHITECTS, P.C.

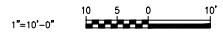
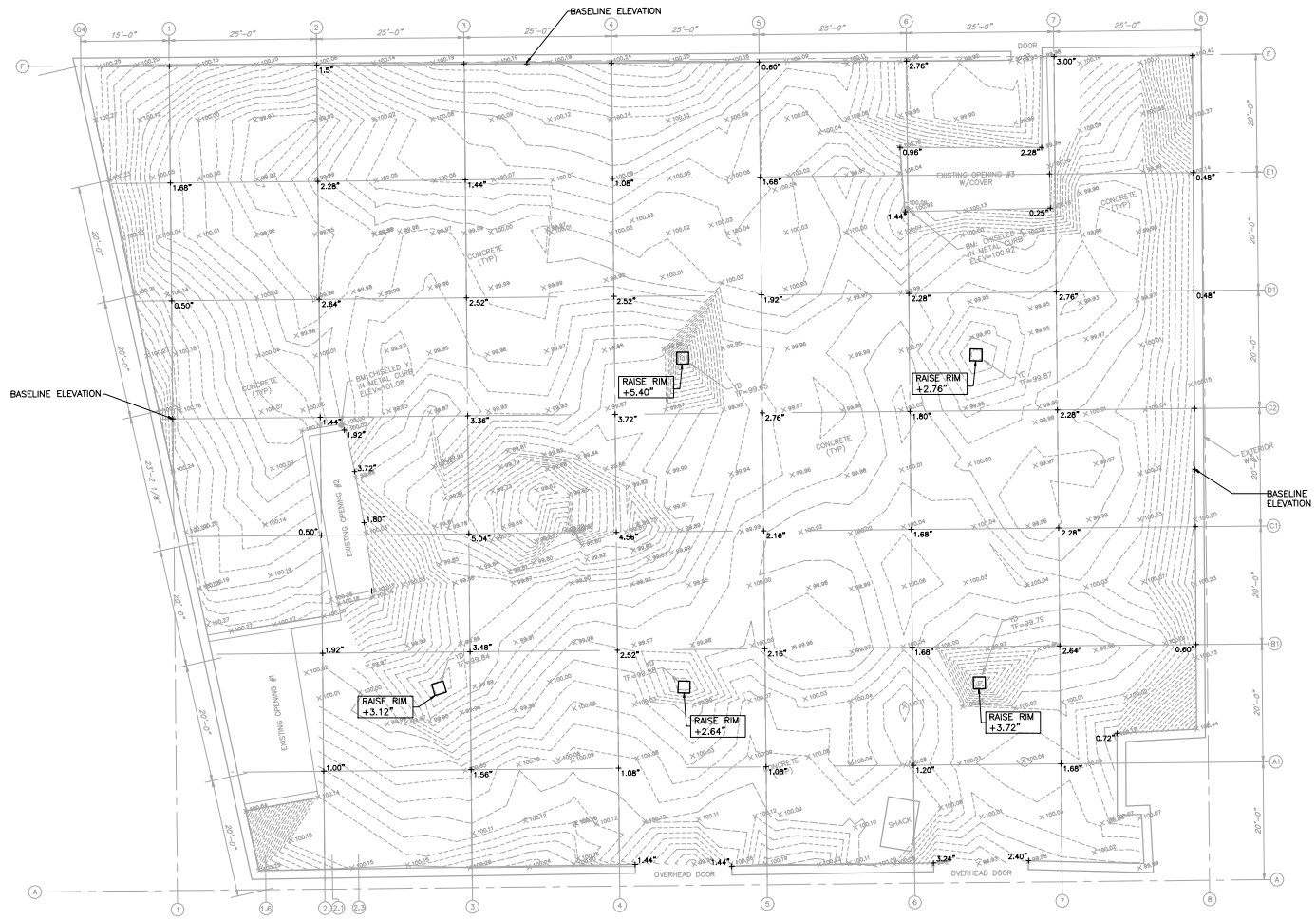
CITY OF STAMFORD	
FARFIELD COUNTY	CONNECTICUT
STAMFORD TRANSFER STATION	

SITE SURVEY

CIVIL

PROJECT NO.
3706
DATE:
SEPTEMBER 2017
SCALE:
1"=10'

DRAWING NO.
C3



NO.	DATE	REVISION	INT.

PROJECT ENGINEER	DRAWN BY:
STM	KA
DESIGNED BY:	CHECKED BY:
STM	TP



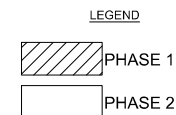
CITY OF STAMFORD	
FARFIELD COUNTY	CONNECTICUT
STAMFORD TRANSFER STATION	

PROPOSED TIPPING FLOOR ELEVATION

CIVIL

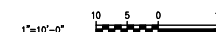
PROJECT NO.
3706
DATE:
SEPTEMBER 2017
SCALE:
1"=10'

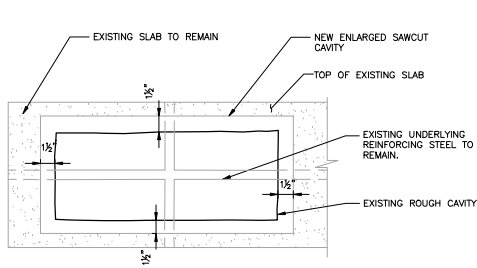
DRAWING NO.
C4



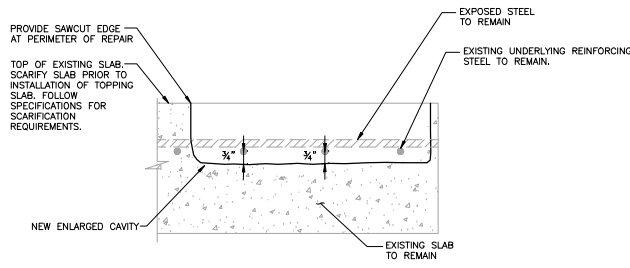
NOTE:

1. DEMOLISH EXISTING TOPPING SLAB THROUGH FACILITY.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FLOOR DRAINS TO PREVENT ANY DEBRIS FROM ENTERING THEM AND TO PREVENT DAMAGE TO THE DRAIN PIPE CONNECTION TO THE TIPPING FLOOR.

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PLAN

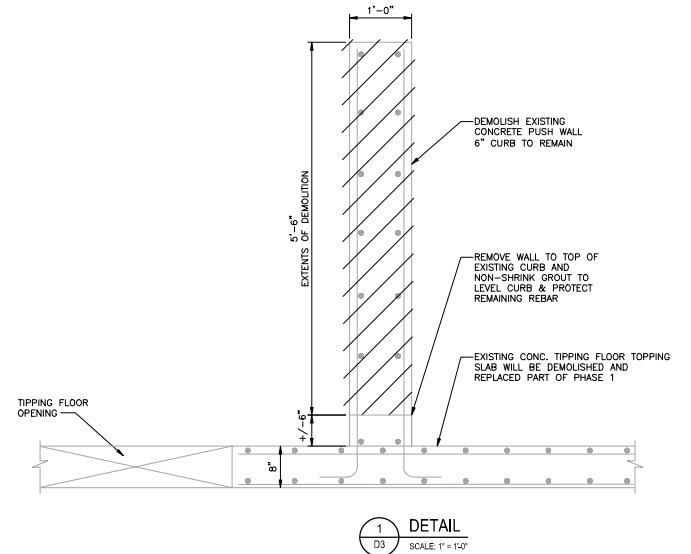


SECTION THRU SLAB

STEP 1: CONCRETE REMOVAL

REPAIR NOTES:

- MARK A RECTILINEAR PERIMETER AROUND THE ROUGH CAVITY EXTENDING 1 1/2" BEYOND THE OUTER MOST EDGE OF THE ROUGH CAVITY.
- PROVIDE 3/4" DEEP SAW CUT ALONG MARKED RECTILINEAR EDGE TO PROVIDE A FAULT LINE FOR DEMOLITION AND TO PREVENT FEATHERED EDGES. DO NOT CUT OR DAMAGE UNDERLYING REINFORCEMENT.
- UTILIZING A 15LB PNEUMATIC HAMMER TOOL (OR SIMILAR HAND TOOL) REMOVE ALL DETERIORATED CONCRETE INSIDE ENLARGED CAVITY FOLLOWING THE MARKED OUTLINE.
- EXTEND CONCRETE REMOVAL TO DEPTH OF 3/4" BEYOND STEEL REINFORCING BAR WITHIN THE CAVITY.
- AVOID IRREGULAR-SHAPED PATCHES OR RE-ENTRANT CORNERS AT ALL REPAIR LOCATIONS.



1 DETAIL
03 SCALE: 1" = 1'-0"

NOTE:

- COST OF REMAINING PUSH WALL PATCH/REPAIR TO BE INCLUDED IN BID ITEM 3.

NO.	DATE	REVISION	INT.

PROJECT ENGINEER:	DRAWN BY:
STM	KA
DESIGNED BY:	CHECKED BY:
STM	TP



CITY OF STAMFORD	CONNECTICUT
FARFIELD COUNTY	
STAMFORD TRANSFER STATION	

DEMOLITION ELEVATIONS
AND DETAILS
DEMOLITION

PROJECT NO.	3706
DATE	SEPTEMBER 2017
SCALE:	AS NOTED

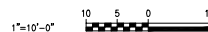
D2

BONDING AGENT AND EUCOFLOOR 404 NOTES

- I. EXECUTION**
A. SURFACE PREPARATION OF WORK AREAS AND PREPARE EXISTING SLAB SURFACE TO RECEIVE NEW TOPPING AS SHOWN IN THE DRAWINGS ALONG THE REPAIR AND OVERLAY BOUNDARIES.
- B. PREPARE REMAINING SURFACES TO BE REPAIRED OR OVERLAY USING SHOT - BLASTING, SCABBLERS, HYDRO-DEMOLITION, OR CONCRETE MILLING MACHINES TO REMOVE ALL DELETERIOUS MATERIAL AND CREATE A SURFACE PROFILE OF THE AREA TO BE REPAIRED OR OVERLAIN. THAT ANY ADVERSE EFFECTS THE TOPPING SURFACE PREPARATION SHALL RESULT IN A SURFACE PROFILE ACCEPTABLE TO THE BONDING AGENT MANUFACTURER, BOTH IN TERMS OF AMPLITUDE AND REMOVAL OF SURFACE DEBRIS AND OR OTHER MATERIALS THAT MAY WEAKEN THE BOND OF THE TOPPING. SURFACE PREPARATION MUST BE MEET A MINIMUM OF IRI CSP - 7.9.
- C. CLEAN SCARFED SURFACE THOROUGHLY UNTIL ALL LATITUDE, DIRT AND SIMILAR DEBRIS AND REMAINS HAVE BEEN REMOVED.
- D. SURVEY THE SURFACE OF THE EXISTING SLAB. MAP AND REPORT TO THE OWNER ANY EXISTING CRACKS THAT WILL TELEGRAPH THROUGH THE NEW CONCRETE REPAIR OR OVERLAY.
- E. APPLY BONDING AGENT TO THE PREPARED SURFACE TO RECEIVE REPAIR OR OVERLAY. CONDUIT SHALL BE PROTECTED WITH THE MANUFACTURER'S RECOMMENDED INSTRUCTIONS AND SAND SATURATE THE WET EPOXY UNTIL REFUSAL. (RECOMMENDED 16-30 MESH SAND GRADATION). ALLOW THE EPOXY TO CURE AND REMOVE ALL LOOSE SAND PRIOR TO THE APPLICATION OF THE TOPPING. THE TOPPING SHALL BE APPLIED TO THE BOND OF THE TOPPING. STRICT ADHERENCE TO THE WORKING LIFE OF THE BONDING AGENT WILL BE ENFORCED. MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT DURING AREA REPAIR AND OVERLAY. THE CONTRACTOR SHALL IMPROVE SURFACE PREPARATION, MOISTURE LEVELS, AND APPLICATION PROCEDURE.
- II. MIXING**
A. THROUGH MIXING OF THE TOPPING MATERIAL SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- III. INSTALLATION**
A. SLAB PREPARATION, MOISTURE CONTENT, TOPPING TERMINATION, BONDING AGENTS, SURFACE TREATMENT, FINISHING AND CURING SHALL BE IN ACCORDANCE WITH MATERIAL MANUFACTURER'S WRITTEN INSTRUCTIONS.
- B. MATERIALS MANUFACTURER SHALL PROVIDE CONTINUOUS CONSTRUCTION INSPECTION THROUGHOUT THE PREPARATION AND INSTALLATION. THE CONTRACTOR MUST BE PERFORMED BY THE CONTRACTOR, AS LONG AS THE CONTRACTOR IS CERTIFIED IN WRITING BY THE MANUFACTURER TO DO SO PRIOR TO INSTALLATION.
- C. BONDING AGENT MUST BE APPLIED TO THE EXISTING CONCRETE. MUST BE APPROVED BY MANUFACTURER'S REPRESENTATIVE PRIOR TO TOPPING INSTALLATION. THIS APPROVAL MAY BE PERFORMED BY THE CONTRACTOR, AS LONG AS THE CONTRACTOR IS CERTIFIED IN WRITING BY THE MANUFACTURER PRIOR TO INSTALLATION.
- D. ANY DEVIATIONS FROM THE MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE APPROVED BY THE MANUFACTURER IN WRITING PRIOR TO EXECUTION.
- IV. METALLIC AGGREGATE TOPPING APPLICATION.) (TO DETERMINE PROPER INSTALLATION TECHNIQUE, CONTACT MANUFACTURER.)**
- 2-TWO-COURSE BOND**
1. ALL SLABS IN THE TOPPING AREA SHALL RECEIVE A MINIMUM OF 1 1/2" THICK TOPPING OVER A PROPERLY PREPARED BASE SLAB. PRIOR TO THE TOPPING THE TOPPING SURFACE SHALL BE PREPARED TO RECEIVE THE TOPPING. THE ADHESIVE, SAND SATURATED AND FULLY CURED. THE BOND COAT SHALL BE MIXED, PLACED, COMPACTED AND FINISHED IN STRICT ACCORDANCE WITH THE INSTRUCTIONS OF THE BONDING AGENT MANUFACTURER.
2. THE BASE SLAB PREPARATION SHALL BE APPROVED BY THE REPRESENTATIVE OF THE TOPPING MANUFACTURER PRIOR TO THE APPLICATION OF THE BONDING AGENT OR EPOXY. THE CONTRACTOR SHALL BE APPROVED BY THE REPRESENTATIVE OF THE CONTRACTOR, AS LONG AS THE CONTRACTOR IS CERTIFIED IN WRITING BY THE MANUFACTURER TO DO SO PRIOR TO INSTALLATION.
- V. PLACING AND FINISHING**
A. IMMEDIATELY AFTER THROUGH MIXING IS COMPLETED, DISCHARGE TOPPING MATERIAL FOR IMMEDIATE PLACING AND SCREEDING. USE EUCOBAR TO KEEP MOISTURE IN TOPPING MATERIAL.
- B. THE MINIMUM THICKNESS OF EUCOFLOR 404 SHALL BE 1 1/4 INCH.
- VI. CURING AND FINISHING**
A. PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXPOSURE AND/OR OVER CURE.
- B. AS SOON AS POSSIBLE AFTER FINAL FINISH IS ACHIEVED, APPLY THE CURING COMPOUND ON THE TOPPING. MAXIMUM COVERAGE RATE OF 300 SQ. FT. PER GALLON. AS SOON AS CURING HAS DRIED, THE SURFACE SHOULD HAVE WATER APPLIED AND/OR BE COVERED WITH POLYETHYLENE SHEETING TO MINIMIZE MOISTURE LOSS.
- VII. INSPECTION**
A. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING THE SERVICES OF A CERTIFIED EUCOFLOR INSPECTOR FOR COMPLIANCE WITH MANUFACTURER'S INSTALLATION SPECIFICATIONS AND BEST PRACTICES.
- VIII. WEAR INDICATORS**
ORANGE TRIANGULAR PLASTIC WEAR INDICATORS TO BE INSTALLED THROUGHOUT THE TOPPING AREA SLAB AS SHOWN IN THE DRAWINGS. THE WEAR INDICATORS SHALL BE INSTALLED 4" BELOW THE NEW FINISHED FLOOR ELEVATION.

1. ALL CONCRETE MATERIAL TO BE NORMAL WEIGHT HIGH EARLY STRENGTH TYPE. SEE SPECIFICATION FOR DETAILS.
2. ALL BAR REINFORCEMENT TO BE DEFORMED TYPE NEW BILLET STEEL CONFORMING TO ASTM A615 GRADE 60 EPOXY COATED.
3. EXTENDED STORAGE OF EPOXY COATED BARS SHALL BE AVOIDED. IF STORAGE AT JOB SITE IS EXPECTED TO EXCEED 2 MONTHS, THE COATED BARS OR BUNDLES SHALL BE COVERED WITH OPAQUE POLYETHYLENE OR OTHER UV PROTECTIVE MATERIAL. PROVISIONS SHALL BE MADE FOR ADEQUATE VENTILATION TO PREVENT CONDENSATION UNDER THE COVERING.
4. PROVIDE DESIGN MIXES FOR EACH TYPE OF CONCRETE, INCLUDING PUMP MIX AS REQUIRED BY SPECIFICATIONS. SUBMIT WITH SUFFICIENT TIME FOR REVIEW AND APPROVAL BEFORE PLACING ANY CONCRETE.
5. DESIGN AND CONSTRUCTION OF FORMWORK AND REMOVAL OF FORMS SHALL COMPLY WITH CODE ACI 347.
6. MINIMUM FOUR TEST CYLINDERS SHALL BE MOLDED FOR EACH DAYS WORK, AND TESTED FOR HIGH EARLY STRENGTH PER SPECIFICATION REQUIREMENTS.
7. CONCRETE BONDING AGENT SHALL BE EPOXY-RESIN TYPE, SIKADUR HI-MOD BY SIKKA CHEMICAL CORPORATION OR EQUAL.
8. THE FLOOR FINISH FOR ALL NEW CONCRETE WORK SHALL BE STEEL TROWEL FINISH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
9. CONTROL JOINTS SPACED AT A MAXIMUM OF TWENTY (20) FEET ARE REQUIRED FOR THE MINIMUM TWO (2) INCH THICK HIGH STRENGTH CONCRETE TOPPING.
10. SCARIFY SURFACE OF EXISTING CONCRETE SLAB AFTER REMOVAL OF EXISTING TOPPING SLAB. INSTALL BONDED CONCRETE TOPPING SLAB ONLY IN LOCATIONS INDICATED ON DRAWING S2.
11. WEAR INDICATORS:
ORANGE PLASTIC WEAR INDICATORS TO BE INSTALLED THROUGHOUT THE HIGH-STRENGTH TOPPING SLAB AT 5'-0" OVER CENTER IN BOTH DIRECTIONS.

[arXiv:1609.08288v1 \[cs.LG\] 27 Sep 2016](#)



NO.	DATE	REVISION	INT.

PROJECT ENGINEER: STM	DRAWN BY: KA
DESIGNED BY: STM	CHECKED BY: TP



D&B ENGINEERS
AND
ARCHITECTS, P.C.

CITY OF STAMFORD

FAIRFIELD COUNTY

CONNECTICUT

STAMFORD TRANSFER STATION

TIPPING FLOOR MATERIAL LAYOUT

STRUCTURAL

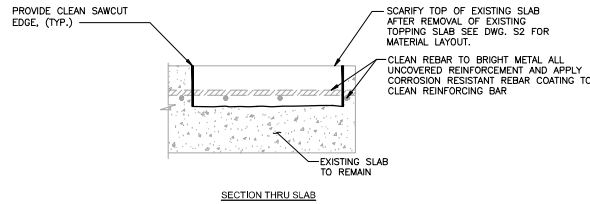
PROJECT NO.	3706
DATE:	SEPTEMBER 2017
SCALE:	1"=10'

DRAWING NO.

S2

**ANVIL TOPPING PREPARATION
& INSTALLATION**

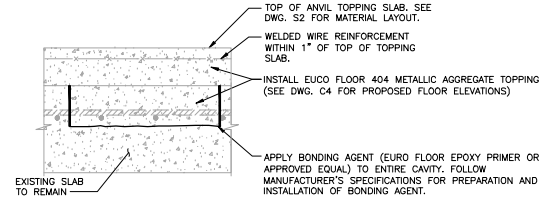
(SEE DWG. D2 FOR STEP 1:
CONCRETE REMOVAL)



STEP 2: CAVITY PREPARATION

REPAIR NOTES:

- UPON COMPLETING REMOVAL OF CONCRETE, REMOVE ALL LOOSE AND/OR DELAMINATING RUST AND MAKE ALL AREAS AVAILABLE FOR INSPECTION BY ENGINEER FOR ADDITIONAL INSTRUCTION.
- CLEAN ALL APPROVED UNCOVERED REINFORCING BARS WITH A WIRE BRUSH ONLY. REMOVE ALL RUST, SCALE TO BRING REPAIR TO BRIGHT METAL. IN THE EVENT THAT RUST EXTENDS BEYOND PREVIOUSLY OBSERVED, NOTIFY ENGINEER FOR FURTHER INSTRUCTIONS.
- AT AREAS WHERE EXISTING REINFORCING STEEL PROJECTS BEYOND THE SPECIFIED 1½", REINFORCING MAYBE BENT OR CUT AT THE DIRECTION OF THE ENGINEER ONLY.
- CLEAN CAVITY OF ALL DEBRIS WITH COMPRESSED AIR AND FLUSH CAVITY WITH POTABLE WATER. DO NOT USE ANY TOOLS OR MATERIAL THAT MAY CAUSE BOND-INHABITATION.
- ALLOW CAVITY AND BARS TO DRY PRIOR TO APPLICATION OF CORROSION RESISTANT REBAR COATING



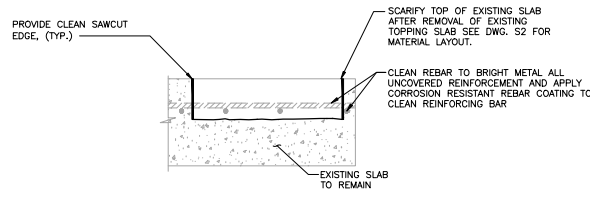
STEP 3: BONDING AGENT, TOPPING AND CURING

REPAIR NOTES:

- PREPARE CAVITY PER MANUFACTURER'S SPECIFICATIONS TO RECEIVE BONDING AGENT AND METALLIC AGGREGATE TOPPING. SATURATE CAVITY UTILIZING CLEAN POTABLE WATER FREE OF CONTAMINANTS. ENSURE SURFACE IS DRY AND FREE OF STANDING WATER PRIOR TO APPLICATION OF BONDING AGENT.
- ALLOW SURFACE TO DRY PER MANUFACTURER'S SPECIFICATION.
- APPLY BONDING AGENT PER MANUFACTURER'S SPECIFICATION.
- NO PINS OR ADDITIONAL REINFORCEMENT IS REQUIRED, UNLESS DIRECTED BY THE ENGINEER TO REPLACE DAMAGED REINFORCEMENT.
- METALLIC AGGREGATE TOPPING SHALL CONSIST OF EUCCOFLOOR 404(OR EQUAL)
- CURE METALLIC AGGREGATE TOPPING PER MANUFACTURER'S SPECIFICATIONS.

**HIGH STRENGTH CONCRETE
PREPARATION & INSTALLATION**

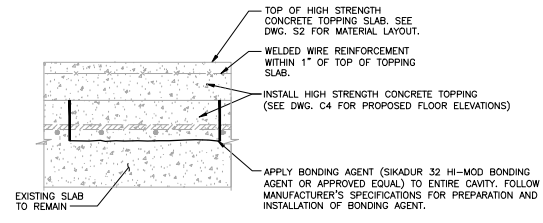
(SEE DWG. D2 FOR STEP 1:
CONCRETE REMOVAL)



STEP 2: CAVITY PREPARATION

REPAIR NOTES:

- UPON COMPLETING REMOVAL OF CONCRETE, REMOVE ALL LOOSE AND/OR DELAMINATING RUST AND MAKE ALL AREAS AVAILABLE FOR INSPECTION BY ENGINEER FOR ADDITIONAL INSTRUCTION.
- CLEAN ALL APPROVED UNCOVERED REINFORCING BARS WITH A WIRE BRUSH ONLY. REMOVE ALL RUST, SCALE TO BRING REPAIR TO BRIGHT METAL. IN THE EVENT THAT RUST EXTENDS BEYOND PREVIOUSLY OBSERVED, NOTIFY ENGINEER FOR FURTHER INSTRUCTIONS.
- AT AREAS WHERE EXISTING REINFORCING STEEL PROJECTS BEYOND THE SPECIFIED 1½", REINFORCING MAYBE BENT OR CUT AT THE DIRECTION OF THE ENGINEER ONLY.
- CLEAN CAVITY OF ALL DEBRIS WITH COMPRESSED AIR AND FLUSH CAVITY WITH POTABLE WATER. DO NOT USE ANY TOOLS OR MATERIAL THAT MAY CAUSE BOND-INHABITATION.
- ALLOW CAVITY AND BARS TO DRY PRIOR TO APPLICATION OF CORROSION RESISTANT REBAR COATING



STEP 3: BONDING AGENT, TOPPING AND CURING

REPAIR NOTES:

- PREPARE CAVITY PER MANUFACTURER'S SPECIFICATIONS TO RECEIVE BONDING AGENT AND HIGH STRENGTH CONCRETE TOPPING. SATURATE CAVITY UTILIZING CLEAN POTABLE WATER FREE OF CONTAMINANTS. ENSURE SURFACE IS DRY AND FREE OF STANDING WATER PRIOR TO APPLICATION OF BONDING AGENT.
- ALLOW SURFACE TO DRY PER MANUFACTURER'S SPECIFICATION.
- APPLY BONDING AGENT PER MANUFACTURER'S SPECIFICATION.
- NO PINS OR ADDITIONAL REINFORCEMENT IS REQUIRED, UNLESS DIRECTED BY THE ENGINEER TO REPLACE DAMAGED REINFORCEMENT.
- HIGH STRENGTH CONCRETE TOPPING SHALL CONSIST OF MINIMUM f'c = 6000 PSI.
- CURE HIGH STRENGTH CONCRETE TOPPING PER TECHNICAL SPECIFICATIONS.

NO.	DATE	REVISION	INT.

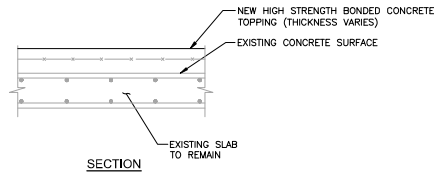
PROJECT ENGINEER:	DRAWN BY:
STM	KA
DESIGNED BY:	CHECKED BY:
STM	TP



CITY OF STAMFORD	
FARFIELD COUNTY	CONNECTICUT
STAMFORD TRANSFER STATION	

DETAILS I
STRUCTURAL

PROJECT NO.	DRAWING NO.
3706	S3
DATE:	
SEPTEMBER 2017	
SCALE:	
AS NOTED	



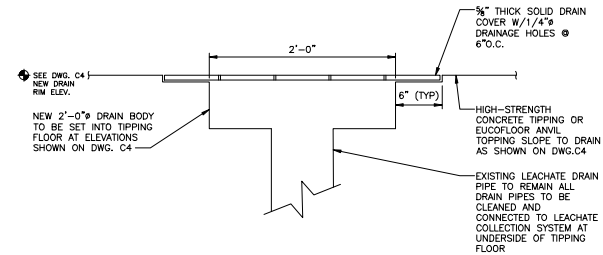
SECTION

REPAIR NOTES:

1. SCARIFY EXISTING CONCRETE SURFACE AND APPLY BONDING AGENT (SIKADUR 32 HI-MOD OR EQUAL) PER MANUFACTURER'S SPECIFICATIONS.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE TOPPING: $f'_c = 6000$ PSI.
3. WHERE REBAR IS EXPOSED, REMOVE LOOSE OR DAMAGED REBAR AND REPLACE WITH #5 EPOXY REBAR, DOWELED INTO SOLID CONCRETE A MINIMUM OF 4". REMOVE LOOSE OR DAMAGED WELDED WIRE REINFORCEMENT AND REPLACE WITH NEW WELDED WIRE REINFORCEMENT.

TYPICAL BONDED CONCRETE SECTION

SCALE: N.T.S.

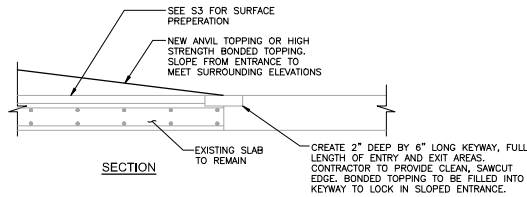


DRAIN DETAIL

SCALE: N.T.S.

NOTE:

1. ALL PIPES WITHIN LEACHATE COLLECTION SYSTEM SHOULD BE FLUSHED, CLEANED AND CHECKED FOR LEAKS. ALL REPAIRS FROM DRAIN BODY TO LEACHATE COLLECTION TANK SHALL BE PART OF THIS CONTRACT.



SECTION

REPAIR NOTES:

1. SCARIFY EXISTING CONCRETE SURFACE AND APPLY BONDING AGENT (SIKADUR 32 HI-MOD OR EQUAL) PER MANUFACTURER'S SPECIFICATIONS.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE TOPPING: $f'_c = 6000$ PSI.

TYPICAL SECTIONS AT ENTRANCE

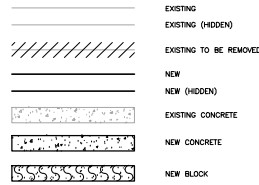
SCALE: N.T.S.

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GENERAL

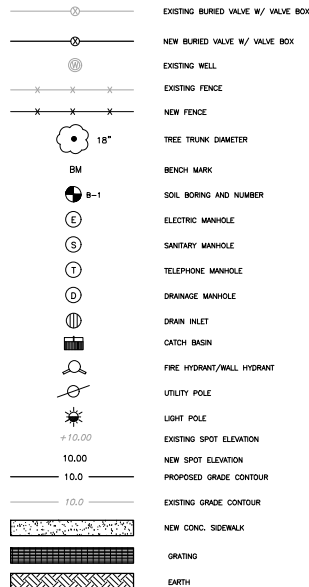
A.B.	ANCHOR BOLT	HW	HOT WATER
ADD	ADDITIONAL	HWH	HOT WATER HEATER
AF	ABOVE FINISHED FLOOR	HYD	HYDRANT
ALUM	ALUMINUM	ID	INSIDE DIAMETER
ARCH	ARCHITECTURAL	INSUL	INSULATION
AT	AT	INT	INTERIOR
A	AND	INV. EL./A.L.	INVERT ELEVATION
B/BOT	BOTTOM	JT	JOINT
B.C.	BRICK COURSE/BOTTOM OF CURB	K	KIPS
BLK	BLOCK	LBS	POUNDS
BM	BEAM	LF	LINEAR FEET
BOO	BOTTOM OF DUCT	LG	LONG
BRG	BEARING	L.H.	LEFT HAND
BF	BUTTERFLY VALVE	LP	LOW POINT
BV	BALL VALVE	MAX	MAXIMUM
CB	CATCH BASIN	MECH	MECHANICAL
CL	CAST IRON	MFG	MANUFACTURING
CHK'D	CHECKED	MFR	MANUFACTURER
CJ	CONSTRUCTION JOINT	MIN	MINIMUM
CL	CLEARANCE	MH	MANHOLE
E	CENTERLINE	MO	MASONRY OPENING
CMU	CONCRETE MASONRY UNIT	NA	NOT APPLICABLE
C.O.	CLEAN OUT	NCS	NASSAU COUNTY SANITARY SEWER
COL	COLUMN	NF	NEAR FACE
CONC	CONCRETE	NO./#	NUMBER
CONN	CONNECTION	NP	NON-POTABLE WATER
CONT	CONTINUE/CONTINUOUS	NTS	NOT TO SCALE
CTR	CENTER	OC	ON CENTER
CV	CHECK VALVE	OF	OVERFLOW
CW	CITY WATER	OH	OVER HEAD ELECTRICAL
D	DRAIN	OPNG	OPENING
DCV	DOUBLE CHECK VALVE	OPP	OPPOSITE
DEPRESS	DEPRESSION	PC	PRECAST
DET	DETAIL	P	PRESSURE INDICATOR
DI	DRAIN MANHOLE	E	PROPERTY LINE/PLATE
DI	DUCTILE IRON	PLAT	PLATFORM
DI/A	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	PV	PUG VALVE
DM(S)	DIMENSION(S)	PVB	PRESSURE VACUUM BREAKER
DM(S)	DRAWING(S)	PVC	POLYVINYL CHLORIDE PIPE
DMLS	DOWELS	ROP	REINFORCED CONCRETE PIPE
"E"	EXISTING	RD	ROOF DRAIN
EA	EACH	REF	REFERENCE
EC	ELECTRICAL CONTRACTOR	REFN	REINFORCE/REINFORCING
E	EACH FACE	REQ'D	REQUIRED
EL/ELEV	ELEVATION	RFG	ROOFING
EQ	EQUAL	R.H.	RIGHT HAND
EQUIP	EQUIPMENT	ROW	RIGHT OF WAY
ES	EACH SIDE	RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
ETC	ET CETERA	SAN	SANITARY DRAIN
EW	EACH WAY	SCH	SCHEDULE
EXP	EXPANSION	SECT	SECTION
EXT	EXTENSION	SM	SIMILAR
FD	FLOOR DRAIN	SL	SLAB
FDN	FOUNDATION	SPECS	SPECIFICATIONS
FF	FAR FACE/FINISHED FLOOR	SQ.	SQUARE
FN	FINISHED	SQ. FT.	SQUARE FEET
FIN. FL.	FINISHED FLOOR	SS/S.S.	STAINLESS STEEL
FL	FLOOR	STD	STANDARD
FM	FORCE MAIN	STP	SEWAGE TREATMENT PLANT
FW	FACE OF WALL	STFF	STIFFENER
FTD	FOOTING	STRUCT	STRUCTURAL
FX	FIRE EXTINGUISHER	SYM	SYMMETRICAL
GA	GAUGE	T	TOP
GB	GLOBE VALVE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TOO	TOP OF DUCT
GC	GENERAL CONTRACTOR	TOL	TOP OF LOUVER
GM	GAS MAIN	TOS	TOP OF STEEL
GS	GAS SERVICE	TOW	TOP OF WALL
GV	GATE VALVE	TYP	TYPICAL
HB	HOSE BIB	UNCLN	UNLESS NOTED OTHERWISE
HDPE	HIGH DENSITY POLYETHYLENE PIPE	VO	VOLUME DAMPER
HGR	HANGER		
HORIZ/H	HORIZONTAL		
HR	HANDRAIL		
HP	HIGH POINT		

ARCHITECTURAL/STRUCTURAL

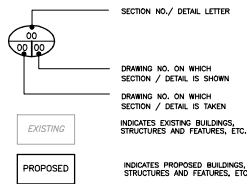


CIVIL

OE	EXISTING OVERHEAD ELECTRIC SERVICE
OE	NEW OVERHEAD ELECTRIC SERVICE
E	EXISTING UNDERGROUND ELECTRICAL CONDUIT
E	NEW UNDERGROUND ELECTRICAL CONDUIT
G	EXISTING GAS MAIN
G	NEW GAS MAIN
S	EXISTING SANITARY SEWER
D	EXISTING DRAIN
D	NEW DRAIN
T	EXISTING TELEPHONE
T	NEW TELEPHONE
W	EXISTING WATER MAIN
W	NEW WATER MAIN
WS	EXISTING WATER SERVICE
WS	NEW WATER SERVICE
E	PROPERTY LINE



MISCELLANEOUS SYMBOLS



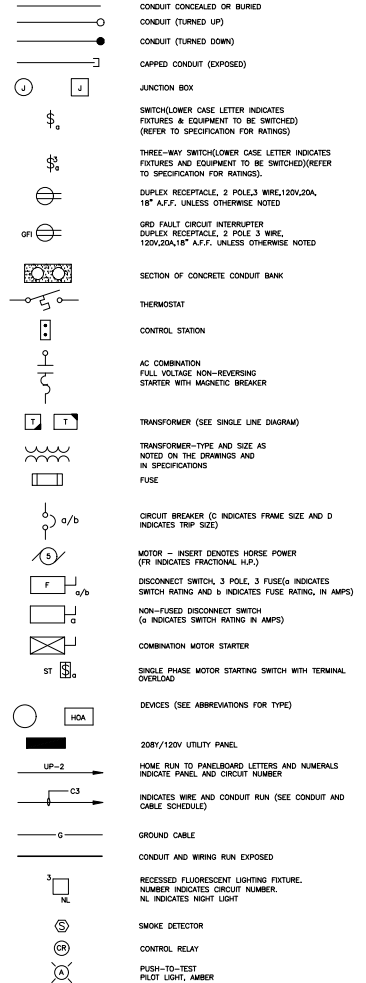
SERVICE ABBREVIATIONS


CW	CITY WATER
FPW	FIRE PROTECTION WATER
SW	SEAL WATER
FW	SERVICE WATER
FWBS	FLUOIZED BED WASTE SLUDGE
WAS	WASTE ACTIVATED SLUDGE
SA	SERVICE AIR
SPD	SUMP PUMP DISCHARGE
FTE	FLOTATION THICKENER EFFLUENT
POLY	POLYMER SOLUTION
WS	WASTE SLUDGE
SSL	SETTLED SLUDGE
EW	EFFLUENT WATER
TSS	THICKENED SLUDGE SUCTION
TSO	THICKENED SLUDGE DISCHARGE
W	WATER (GENERAL)
HYPO	SODIUM HYPOCHLORITE
NACH	SODIUM HYDROXIDE

ELECTRICAL

AF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AT	ASTRONOMIC TIMER
C	CONDUIT
CB	CIRCUIT BREAKER
COA	CLOSE-OPEN-AUTO SELECTOR SWITCH
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
DPI	DIFFERENTIAL PRESSURE INDICATOR
DPS	DIFFERENTIAL PRESSURE SWITCH
DS	DOOR MOUNTED SWITCH (INTRUSION ALARM)
DM	ELECTRICAL HANDHOLE
DMH	ELECTRICAL MANHOLE
ELH	ELECTRIC UNIT HEATER
FI	FLOW INDICATOR
FO	FALL OPEN
FR	FRACTIONAL HORSEPOWER
FS	FLOAT SWITCH
FSNR	FULL VOLTAGE NON-REVERSING STARTER
GC	GENERAL CONTRACTOR
GI	GROUND FAULT CIRCUIT INTERRUPTER
HOF	HEAT-OFF-FAN SWITCH
HOA	HAND-OFF-AUTOMATIC SWITCH
LC	LIGHTING CONTACTOR
MCC	MOTOR CONTROL CENTER
M.O.	MAIN LUGS ONLY
M.O.	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PB	PULLBOX
RVS	REDUCED VOLTAGE SOLID STATE STARTER
SV	SOLENOID VALVE
T	THERMOSTAT
TB	TERMINAL BOX
TS	TRANSFER SWITCH
TD	TIME DELAY RELAY
TC	TIME DELAY CLOSE
TO	TIME DELAY OPEN
UPS	UNINTERRUPTIBLE POWER SUPPLY

ELECTRICAL (CONTINUED)



						 D&B ENGINEERS AND ARCHITECTS, P.C.	CITY OF STAMFORD		PROJECT NO. 3706		DRAWING NO. E1	
							FAIRFIELD COUNTY		CONNECTICUT			DATE: SEPTEMBER 2017
							STAMFORD TRANSFER STATION		SYMBOL LIST AND ABBREVIATIONS			SCALE: AS NOTED
									ELECTRICAL			
NO.	DATE	REVISION	INT.	PROJECT ENGINEER: STM		DRAWN BY: MC						
				DESIGNED BY: MC		CHECKED BY: MN						



PROJECT ENGINEER:	DRAWN BY:
STM	MC
DESIGNED BY:	CHECKED BY:
MC	MN



NOTES:
1. REFER TO DRAWING E1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.

1"=30'-0"



NO.	DATE	REVISION	BY

PROJECT ENGINEER: STM	DRAWN BY: MC
DESIGNED BY: MC	CHECKED BY: MN

D&B ENGINEERS AND ARCHITECTS, P.C.

CITY OF STAMFORD
FAIRFIELD COUNTY CONNECTICUT
STAMFORD TRANSFER STATION

SITE PLAN
ELECTRICAL

PROJECT NO.
3706
DATE
SEPTEMBER 2017
SCALE:
1" = 30'-0"

DRAWING NO.
E2



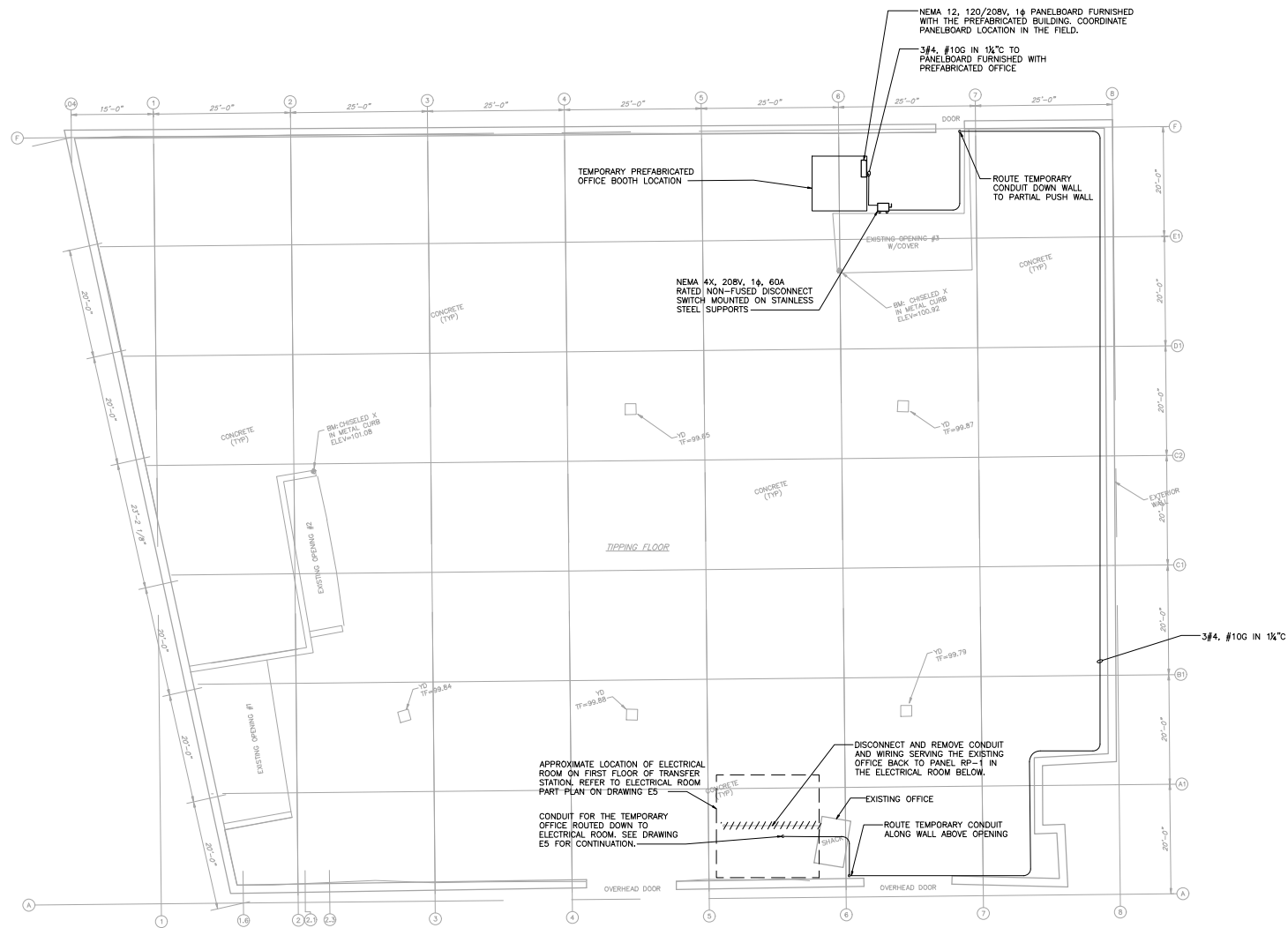
MAIN OFFICE BUILDING

NOTES:

1. REFER TO DRAWING E1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS IN THE MAIN OFFICE BUILDING AND COORDINATE ROUTING OF TELEPHONE CONDUIT TO THE TELEPHONE TERMINAL BOARD.
3. CONTRACTOR SHALL FIELD COORDINATE ROUTING OF UNDERGROUND ELECTRICAL DUCTBANK. EXISTING UTILITIES ARE NOT SHOWN AND SHALL BE TAKEN INTO CONSIDERATION PRIOR TO ROUTING CONDUITS.

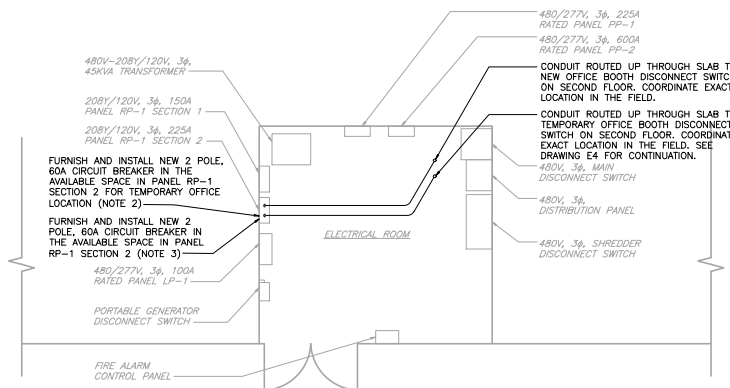
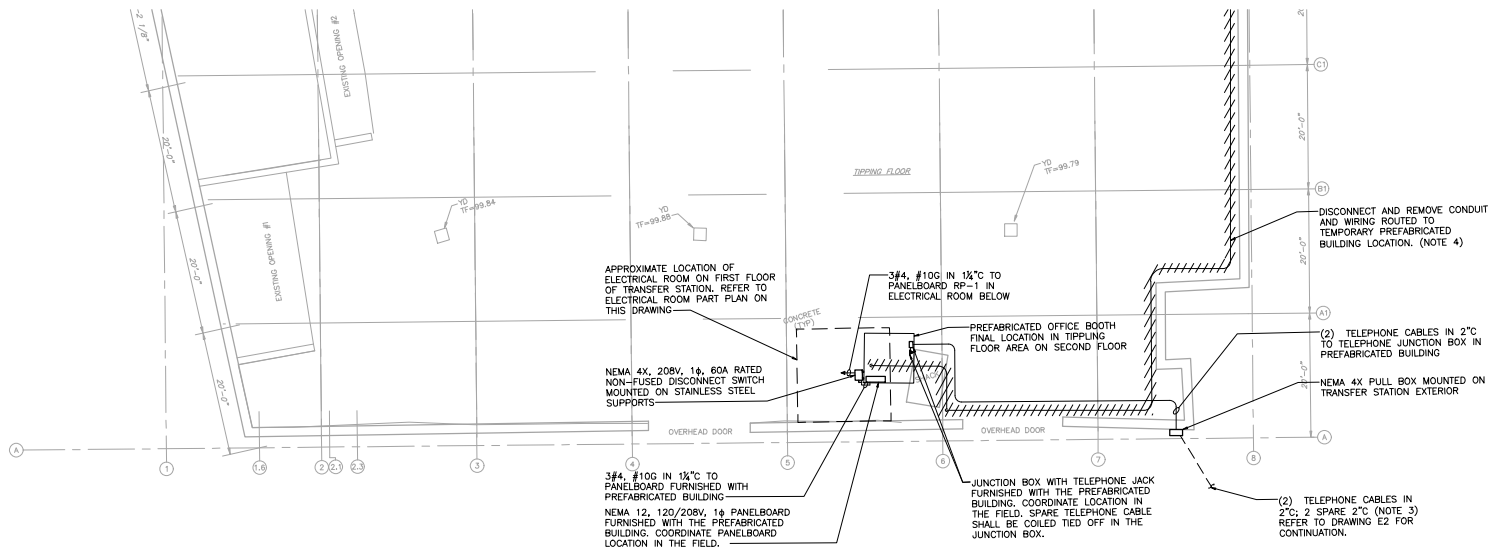
1"=10'-0" 10 5 0 10'

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$1'' = 10' - 0''$

[illegible]



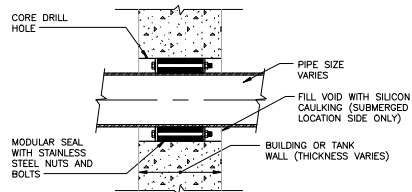
ELECTRICAL ROOM PART PLAN
SCALE: $\frac{1}{4}$ " = 1'-0"

NOTES:

1. REFER TO DRAWING E1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. FURNISH AND INSTALL A NEW 2 POLE 60A CIRCUIT BREAKER IN THE EXISTING PANELBOARD RP-1 FOR THE TEMPORARY OFFICE LOCATION. CIRCUIT BREAKER SHALL REMAIN AS SPARE. CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING.
3. FURNISH AND INSTALL A NEW 2 POLE 60A CIRCUIT BREAKER IN THE EXISTING PANELBOARD RP-1 FOR THE FINAL OFFICE LOCATION. CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING.
4. CONTRACTOR SHALL PHASE WORK TO MINIMIZE ELECTRICAL OUTAGE. CONDUIT AND WIRE ROUTED TO THE TEMPORARY PREFABRICATED OFFICE LOCATION SHALL BE DISCONNECTED AND REMOVED AFTER THE PREFABRICATED OFFICE IS INSTALLED IN THE FINAL LOCATION.
5. FURNISH AND INSTALL TELEPHONE CABLE FROM TELEPHONE TERMINAL BOARD IN THE MAIN OFFICE BUILDING TO THE PREFABRICATED OFFICE BOOTH. COORDINATE TELEPHONE OUTLET AND WIRE REQUIREMENTS WITH PREFABRICATED BUILDING MANUFACTURER AND THE OWNERS TELEPHONE SYSTEM SUPPLIER.

				CITY OF STAMFORD		STAMFORD TRANSFER STATION		TIPPING FLOOR PLAN		PROJECT NO. 3706	DRAWING NO. E5
				FARFIELD COUNTY		CONNECTICUT				DATE SEPTEMBER 2017	
								ELECTRICAL		SCALE: AS NOTED	
NO.	DATE	REVISION	INT.	PROJECT ENGINEER: STM		DRAWN BY: MC					
				DESIGNED BY: MC		CHECKED BY: MN					

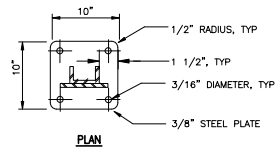




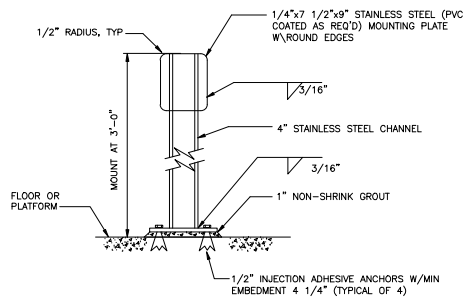
- NOTES:
1. MODULAR SEAL STRIP SHALL BE PLACED SO THAT BOLTS CAN BE ADJUSTED DURING NORMAL OPERATION.
 2. WALLS 12" OR LARGER IN THICKNESS SHALL REQUIRE 2 MODULAR SEAL STRIPS.

TYPICAL CONDUIT PENETRATION THRU WALL

(USE FOR ALL WALL PENETRATIONS)
N.T.S.



PLAN

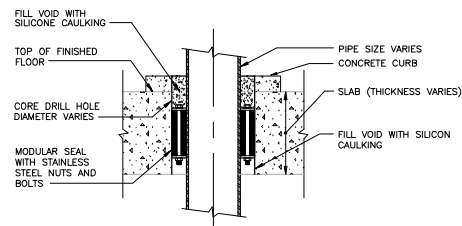


ELEVATION

- NOTES:
1. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL. USE WASHERS AND SPLIT LOCK-WASHERS UNDER ALL NUTS.

EQUIPMENT MOUNTING PEDESTAL

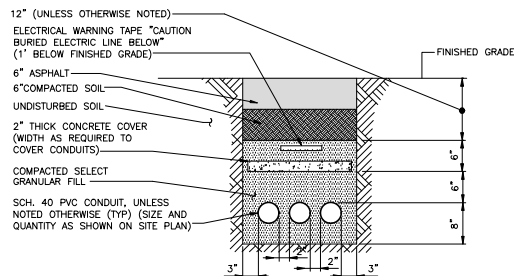
N.T.S.



- NOTES:
1. MODULAR SEAL STRIP SHALL BE PLACED SO THAT BOLTS CAN BE ADJUSTED DURING NORMAL OPERATION.
 2. FLOORS 12" OR LARGER IN THICKNESS SHALL REQUIRE 2 MODULAR SEAL STRIPS.

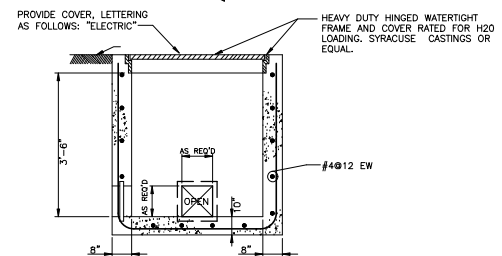
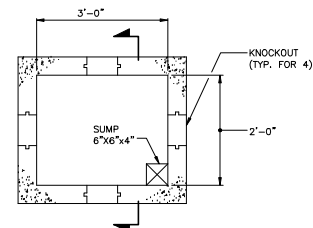
TYPICAL CONDUIT PENETRATION THRU FLOOR

(USE FOR ALL FLOOR PENETRATIONS)
N.T.S.



TYPICAL UNDERGROUND CONDUIT TRENCH DETAIL

N.T.S.
(USE FOR ALL UNDERGROUND CONDUITS)



TYPICAL HANDHOLE DETAIL

- NOTE:
1. STRUCTURE SHALL BE RATED FOR H20 LOADING.

NO.	DATE	REVISION	INT.

PROJECT ENGINEER:	DRAWN BY:
STM	MC
DESIGNED BY:	CHECKED BY:
MC	MN



CITY OF STAMFORD	CONNECTICUT
FARFIELD COUNTY	
STAMFORD TRANSFER STATION	

DETAILS	ELECTRICAL
---------	------------

PROJECT NO.	DRAWING NO.
3706	E6
DATE:	
SEPTEMBER 2017	
SCALE:	
AS NOTED	