





ZONING:  
PUD B-3

1400SF-8/S-2015v2

SHEET NO.

C-1



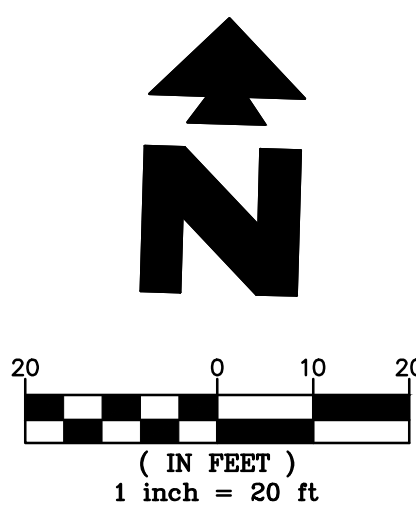
**SITE PLAN**  
**MURPHY EXPRESS**  
495 S WEBER ROAD  
ROMEIOVILLE  
ILLINOIS

**GreenbergFarrow**

1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30309  
TEL: (404) 401-3970  
FAX: (404) 401-3970  
DWC NAME: ROMEIOVILLE (WEBER), IL  
JOB NO.: 20160930

**MURPHY OIL USA, INC.**

**MURPHY OIL USA**  
200 PEACH STREET  
EL DORADO, AR 71730



- EXISTING**
- PROPERTY LINE
  - CENTER LINE
  - EASEMENT LINE
  - BUILDING SETBACK
  - RECORD DATA
  - TOP OF (CURB, WALL, ETC.)
  - SPOT OF (GRADE, BOTTOM OF (BRIDGE, OUTLET, ETC.))
  - CONCRETE
  - EVERGREEN/DECIDUOUS (WITH SIZE IN INCHES)
  - SHRUB/SHRUB LINE
  - MONITOR WELL
  - GAS VALVE
  - TYPICAL SIGN
  - FLARED END SECTION
  - CLOSED MANHOLE
  - OPEN GRATE MANHOLE
  - BEEHIVE GRATE MANHOLE
  - GUTTER FRAME
  - VALVE VAULT
  - FIRE HYDRANT
  - B-BOX/SERVICE VALVE
  - POST LIGHT/GROUND LIGHT
  - AREA LIGHT
  - STREET LIGHT
  - TRAFFIC SIGNAL
  - MAST ARM SIGNAL
  - HANDHOLE (electric/traffic)
  - GAS METER
  - ELECTRIC METER
  - PEDESTAL (teleco, elec, cable)
  - UTILITY POLE
  - TELEPHONE VAULT
  - GUARDRAIL
  - GUY WIRE ANCHOR
  - CONTOUR LINE
  - TREE LINE / HEDGE LINE
  - EDGE GRAVEL/STONE
  - FENCE LINE
  - STORM SEWER
  - SANITARY SEWER
  - COMBO SEWER
  - WATER SERVICE LINE
  - WATERMAIN
  - OVERHEAD LINE
  - FIBER OPTIC LINE
  - GAS LINE
  - U.G. TELCO LINE
  - U.G. ELECTRIC LINE

- PROPOSED**
- BOUNDARY LINE
  - CONCRETE INTEGRAL CURB
  - CONSTRUCTION FENCE (SEE DETAIL SHEETS)
  - CONSTRUCTION FENCE ON PAVEMENT (SEE DETAIL SHEETS)
  - BUILDING/CANOPY CONTROL POINT

- GENERAL SITE NOTES**
- A. ALL DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- B. ALL CURB RETURN RADI SHALL BE 5', AS SHOWN TYPICAL ON THIS PLAN, UNLESS OTHERWISE NOTED.
- C. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON:  
ALL CURB ADJACENT TO CONCRETE PAVING SHALL BE INSTALLED PER DETAIL 1A.  
PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE PAVING PLAN OVER THE ENTIRE PARKING LOT AREA AND ALL APPROACH DRIVES.  
SEE ASSOCIATED PLANS FOR CANOPY, COLUMN, PUMP ISLAND DETAILS AND LAYOUT.
- D. CONTRACTOR SHALL BEGIN CONSTRUCTION OF ANY LIGHT POLE BASES FOR RELOCATED LIGHT FIXTURES AND RELOCATION OF ELECTRICAL SYSTEM AS SOON AS DEMOLITION BEGINS. CONTRACTOR SHALL BE AWARE THAT INTERRUPTION OF POWER TO ANY LIGHT POLES OR SIGNS SHALL NOT EXCEED 24 HOURS.
- E. THE LOCATION OF THE CONSTRUCTION FENCE ON THE DRAWINGS IS FOR GRAPHICAL REPRESENTATION ONLY. THE CONTRACTOR IS TO ENSURE THAT THE CONSTRUCTION FENCE ENCOMPASSES THE ENTIRE WORK AREA.
- F. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL. APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- G. CONTRACTOR SHALL PURCHASE AND INSTALL A MAILBOX, AND SHALL COORDINATE LOCATION OF MAILBOX WITH MURPHY CONSTRUCTION MANAGER AND/OR ON-SITE REPRESENTATIVE AND LOCAL POSTMASTER.
- H. ALL PROPOSED PAVEMENT STRIPING OR MARKINGS SHALL FOLLOW THE SPECIFICATIONS FOR PAINT INCLUDED IN DETAIL 10A.

- SITE NOTES**
- 2F DRILL (2) 3/4" X 5/8" DIA. HOLES (1) EACH FOR OPEN POSITION & CLOSED POSITION OF GATES. TO BE USED ON BOTH SIDES OF GATE. SEE DUMPSTER DETAIL.
- 8B OVERHEAD CANOPY - (TYP.-PER CANOPY PLANS)
- 12A 4" TRAFFIC YELLOW LANE STRIPE (SEE LENGTH INDICATED AT SYMBOL).
- 12D 4" WIDE PAINTED STRIPES. 2.0' O.C. @ 45° (SEE SIZE COLOR INDICATED AT SYMBOL).
- 12H 4" DOUBLE TRAFFIC YELLOW LANE STRIPE (SEE LENGTH INDICATED AT SYMBOL).
- 12M CONTRACTOR TO ENSURE THAT ANY LIGHT POLES OR HANDICAP PARKING SIGNS ARE AT LEAST 2' FROM BACK OF CURB TO PREVENT THE VEHICLES FROM STRIKING THESE ITEMS.
- 13B LIMITS OF HEAVY DUTY CONCRETE PAVING
- 14J GC TO INSTALL (1) 4" PVC SLEEVE FOR IRRIGATION LINE. SEE UTILITY PLAN FOR INSTALLATION REQUIREMENTS.
- 14K GC TO INSTALL (2) 4" PVC SLEEVES FOR FUTURE USE. SEE UTILITY PLAN FOR INSTALLATION REQUIREMENTS.
- 16A MURPHY OIL FREE STANDING SIGN. PER APPROVED ELEVATION.
- 21A TAPER CURB TO MATCH EXISTING CURB. THREE (3) DRILLED AND GROUTED NO. 5 REINFORCING BARS OR EXPANSION TIE ANCHORS, 5/8" IN DIAMETER. SHALL BE USED TO TIE THE NEW CURB AND GUTTER TO THE EXISTING CURB AND GUTTER ON EACH SIDE.
- EDGE OF CONCRETE SLAB. PER TANK/PIPING PLANS.
- 21D UNDERGROUND STORAGE TANKS (1) 25,000 GAL.-REGULAR, (1) 8,000 GAL.-PREMIUM, (1) 10,000 GAL.-DIESEL, (1) 8,000 GAL.-E-85.
- 21G AIR VACUUM UNIT WITH 4' X 7' CONCRETE SLAB
- 21K MURPHY EXPRESS ID SIGN. PER APPROVED ELEVATION.
- 21P 7' X 10' CONCRETE PAD FOR PROPANE TANKS.
- 21T MAILBOX. (CONTRACTOR TO COORDINATED LOCATION WITH MURPHY AND POSTMASTER PRIOR TO INSTALLATION)
- 21U 5' X 7' CONCRETE SLAB FOR ICE UNIT. SEE NUMBER INDICATED AT SYMBOL.
- 21V CONCRETE PAD FOR VENT RISERS. PER TANK & PIPING PLANS.
- 30A CURB TYPE TRANSITION.
- 30B DETECTABLE WARNING PLATES SHOULD BE EAST JORDAN INSERTS, HEAVY DUTY LOAD RATING, BRICK RED POWDER COATING RAL3016.
- 51B LIMITS OF SAWCUT AND PAVEMENT REMOVAL.

**SITE DETAILS - SEE DETAIL SHEETS**

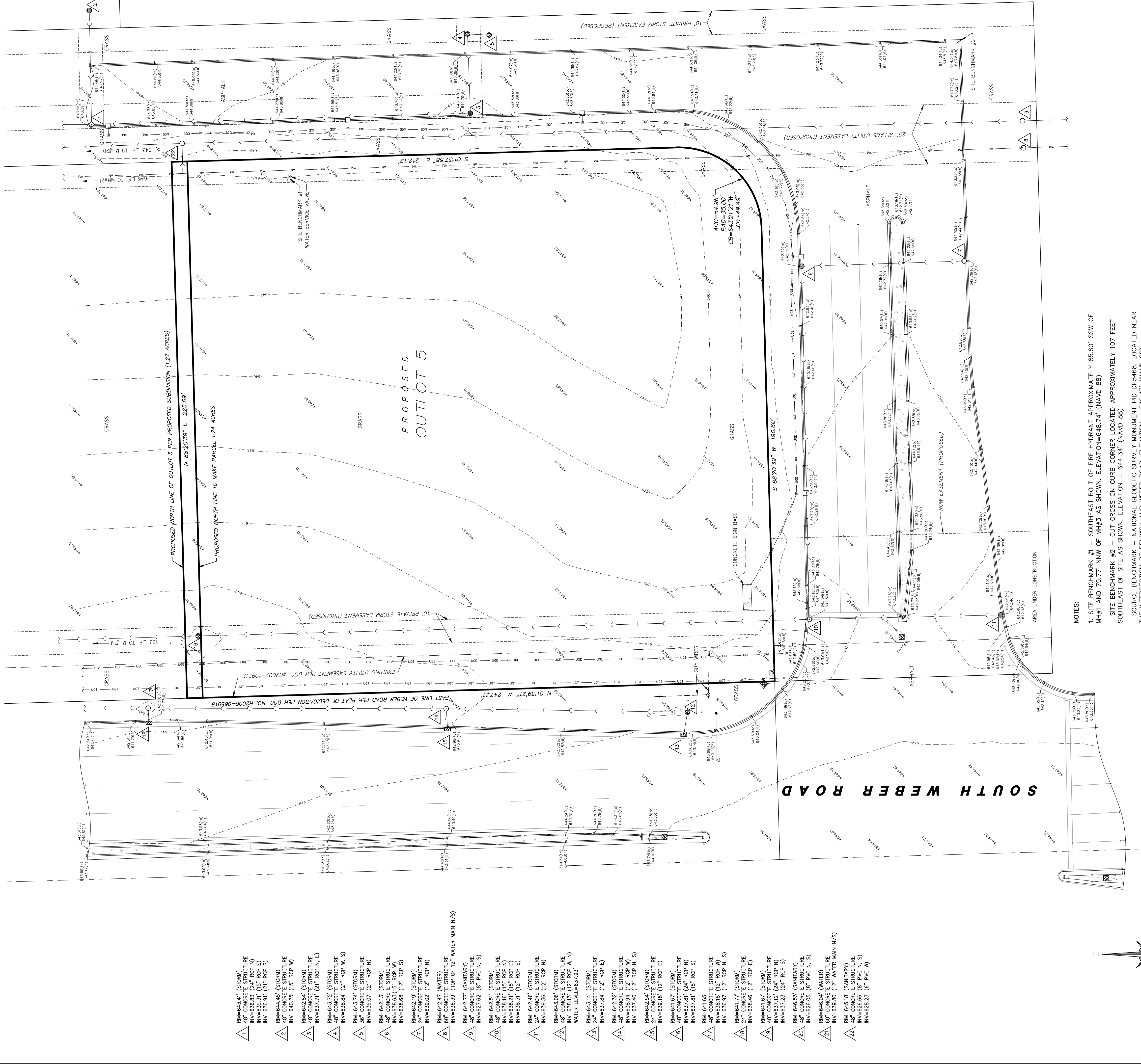
- 1B TYPE "B" CONCRETE CURB & GUTTER.
- 1P BARRIER CURB AROUND PARKING LOT AND AREAS OF REVERSE PITCH CURB AND GUTTER PER ILLINOIS DOT STANDARD DETAIL CURB TYPE B-6.12.
- 2E DUMPSTER ENCLOSURE
- 3D CONCRETE SIDEWALK
- 3N WHEELCHAIR RAMP IN SIDEWALK.
- 5A GUARD POST (SINGLE)
- 5B TRAFFIC SIGN IN BOLLARD
- 5G U-BUMPER
- 6B SCREEN WALL
- 9A ACCESSIBLE PARKING STALL.
- 9S ACCESSIBLE / VAN ACCESSIBLE PARKING SIGN (TYP.)
- 9U ACCESSIBLE PARKING SYMBOL (SEE PAINT COLOR INDICATED AT SYMBOL)
- 10A TRAFFIC FLOW ARROW (TYP.)
- 10B STOP BAR (TYP.)
- 10C FIRE LANE MARKING
- 11K "NO PARKING FIRE LANE" SIGN
- 12C "STOP" SIGN
- 13A SITE LIGHT POLE. SEE PHOTOMETRIC PLANS FOR POLE BASE DETAIL, FIXTURE TYPE, AND MOUNTING DETAILS.

**PARKING INFORMATION:  
MURPHY**

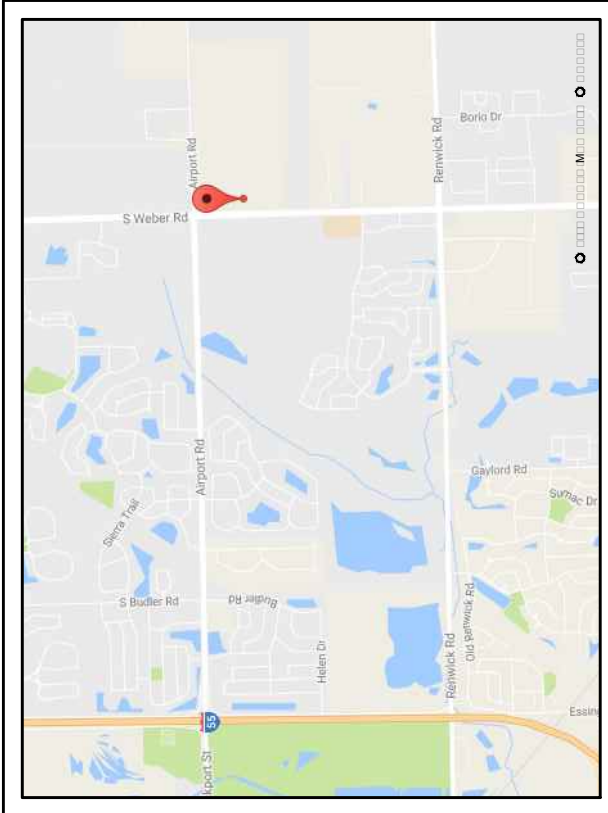
DESCRIPTION	BUILDING AREA (S.F.)	REQUIRED:				
		RATIO /1000 S.F.	REGULAR	ACCESSIBLE	VAN ACCESSIBLE	TOTAL
MURPHY OIL	1400	5	6		1	7
STALL DIMENSIONS:		PROVIDED:				
90": 9.5' x 19'		RATIO /1000 S.F.	REGULAR	ACCESSIBLE	VAN ACCESSIBLE	TOTAL
		5	6		1	7



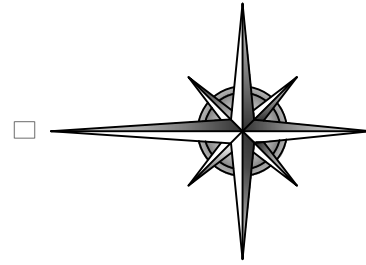
ALTA / ACSM  
LAND TITLE SURVEY



- NOTES:
1. SITE BENCHMARK #1 – SOUTHEAST BOLT OF FIRE HYDRANT APPROXIMATELY 85.60' SSW OF MH#1 AND 79.17' NNW OF MH#3 AS SHOWN. ELEVATION=648.74' (NAVD 88)
  2. SITE BENCHMARK #2 – CUT CROSS ON CURB CORNER LOCATED APPROXIMATELY 107 FEET SOUTHEAST OF SITE AS SHOWN. ELEVATION = 644.34' (NAVD 88)
  3. SOURCE BENCHMARK – NATIONAL GEODETIC SURVEY MONUMENT RD.DP5468, LOCATED NEAR THE INTERSECTION OF RENWICK AND WEBER ROAD. ELEVATION = 649.47' (NAVD 88)
  4. PERMANENT INDEX NUMBER: 11-04-17-100-012
  5. THE LOCATION OF UNDERGROUND UTILITIES WAS DETERMINED BY FIELD OBSERVATION AND VISIBLE MARKINGS ONLY.
  6. FIELD WORK COMPLETED: 11/15/16
  7. SURVEY WAS PREPARED WITH THE AID OF A TITLE COMMITMENT PREPARED BY FIRST AMERICAN INSURANCE COMPANY. COMMITMENT NUMBER NCS-820637-CHAR, HAVING AN EFFECTIVE DATE OF 08/01/17.
  8. SCHEDULE B PART 2 EXCEPTIONS:
    - 1. PLAT OF DEDICATION PER DOC. #R20060628405 DOES NOT EFFECT PROPOSED LOT
    - 2. PLAT OF DEDICATION PER DOC. #R2006065918 IS SHOWN
    - 3. UTILITY EASEMENT PER DOC. #R2016067675 DOES NOT EFFECT PROPOSED LOT
  9. ACCORDING TO OUR INTERPOLATION OF THE FLOOD INSURANCE RATE MAP THE PROPERTY FALLS WITHIN A ZONE "X" DESCRIBED AS "AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOODPLAIN" PER F.E.M.A. PANEL NO. 17197C0015E DATED SEPTEMBER 6th, 1995.
  10. SURVEY PREPARED FOR: GREENBERG FARROW ARCHITECTURE, INC.
  11. THERE WAS EVIDENCE OF RECENT EARTH MOVING WORK ON SOUTHWEST CORNER OF PROPERTY NEAR TRAFFIC SIGNAL AND SIGN.
  12. THERE IS OBSERVED EVIDENCE OF RECENT STREET CONSTRUCTION.
  13. THERE ARE NO PARKING SPACES.
  14. BASIS OF BEARINGS IS TRUE NORTH BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM.
  15. ANY DISCREPANCIES FOUND WITHIN THIS DOCUMENT NEED TO BE REPORTED TO THE SURVEYOR AS SOON AS POSSIBLE.



- RM=643.41' (STORM)  
48" CONCRETE STRUCTURE  
INW=639.51' (12" RCP N)  
INW=639.91' (12" RCP S)
- RM=644.45' (STORM)  
48" CONCRETE STRUCTURE  
INW=640.25' (15" RCP W)
- RM=642.84' (STORM)  
48" CONCRETE STRUCTURE  
INW=637.71' (21" RCP N, E)
- RM=643.72' (STORM)  
48" CONCRETE STRUCTURE  
INW=638.64' (21" RCP W, S)
- RM=643.74' (STORM)  
36" CONCRETE STRUCTURE  
INW=638.07' (21" RCP N)
- RM=642.13' (STORM)  
48" CONCRETE STRUCTURE  
INW=638.65' (12" RCP S)
- RM=642.19' (STORM)  
24" CONCRETE STRUCTURE  
INW=639.02' (12" RCP N)
- RM=642.47' (WATER)  
60" CONCRETE STRUCTURE  
INW=636.39' (TOP OF 12" WATER MAIN N/S)
- RM=642.77' (SANITARY)  
48" CONCRETE STRUCTURE  
INW=627.62' (8" PVC N, S)
- RM=642.51' (STORM)  
48" CONCRETE STRUCTURE  
INW=638.91' (15" RCP S)
- RM=643.91' (STORM)  
48" CONCRETE STRUCTURE  
INW=639.36' (12" RCP N)
- RM=643.06' (STORM)  
48" CONCRETE STRUCTURE  
INW=638.13' (12" RCP W, N)  
WATER LEVEL=637.53'
- RM=643.14' (STORM)  
24" CONCRETE STRUCTURE  
INW=637.84' (12" RCP E)
- RM=642.32' (STORM)  
48" CONCRETE STRUCTURE  
INW=638.94' (12" RCP W)
- RM=637.40' (12" RCP N, S)
- RM=642.54' (STORM)  
24" CONCRETE STRUCTURE  
INW=639.18' (12" RCP E)
- RM=641.77' (STORM)  
48" CONCRETE STRUCTURE  
INW=638.46' (12" RCP E)
- RM=641.67' (STORM)  
48" CONCRETE STRUCTURE  
INW=637.12' (24" RCP N)  
INW=637.23' (24" RCP S)
- RM=646.53' (SANITARY)  
48" CONCRETE STRUCTURE  
INW=628.05' (8" PVC N, S)
- RM=646.04' (WATER)  
48" CONCRETE STRUCTURE  
INW=639.80' (12" WATER MAIN N/S)
- RM=645.19' (SANITARY)  
48" CONCRETE STRUCTURE  
INW=626.66' (8" PVC N, S)  
INW=628.23' (8" PVC W)



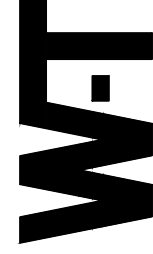
SCALE: 1" = 20'  
00 10 20 40  
BAR SCALE

LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	BUILDING SETBACK
	RECORD DATA
	TOP OF GROUNDWATER
	CONCRETE
	EVERGREEN/DECIDUOUS
	SHRUB/TREE
	MONITOR WELL
	GAS VALVE
	STORM SEWER
	FLARED END SECTION
	OPEN GRATE MANHOLE
	GUTTER FRAME
	VALVE VAULT
	FIRE HYDRANT
	B-SIDE SERVICE VALVE
	POST LIGHT
	AREA LIGHT
	STREET LIGHT
	TRAFFIC SIGNAL
	MAST ARM SIGNAL
	GAS METER
	ELECTRIC METER
	PEDESTAL (telecom, electric)
	TELEPHONE VAULT
	GUARDRAIL
	GUY WIRE ANCHOR
	HEDGE LINE
	EDGE GRAVEL/STONE
	FENCE LINE
	STORM SEWER
	COMBO SEWER
	WATER MAIN
	OPEN GRATE MANHOLE
	GUTTER FRAME
	FIBER OPTIC LINE
	GAS LINE
	U.G. TECO LINE
	U.G. ELECTRIC LINE

JOB : S16217	SCALE : 1"=20'
SHEET	DRAWN : BMB
S-1	BOUNDARY : MWO
	FIELD WORK : MDW
OF ONE SHEETS	CHECK : FM

MURPHY OIL ROMEOVILLE  
SE CORNER OF AIRPORT & WEBER RD.  
ROMEOVILLE, ILLINOIS

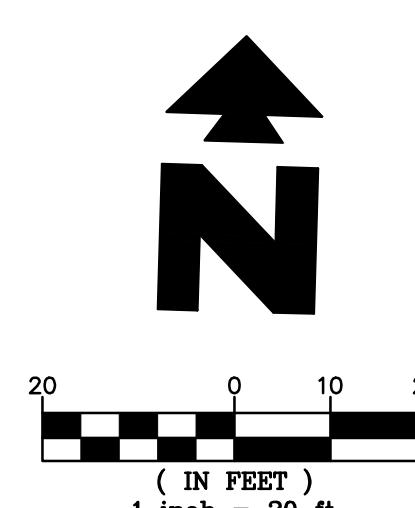
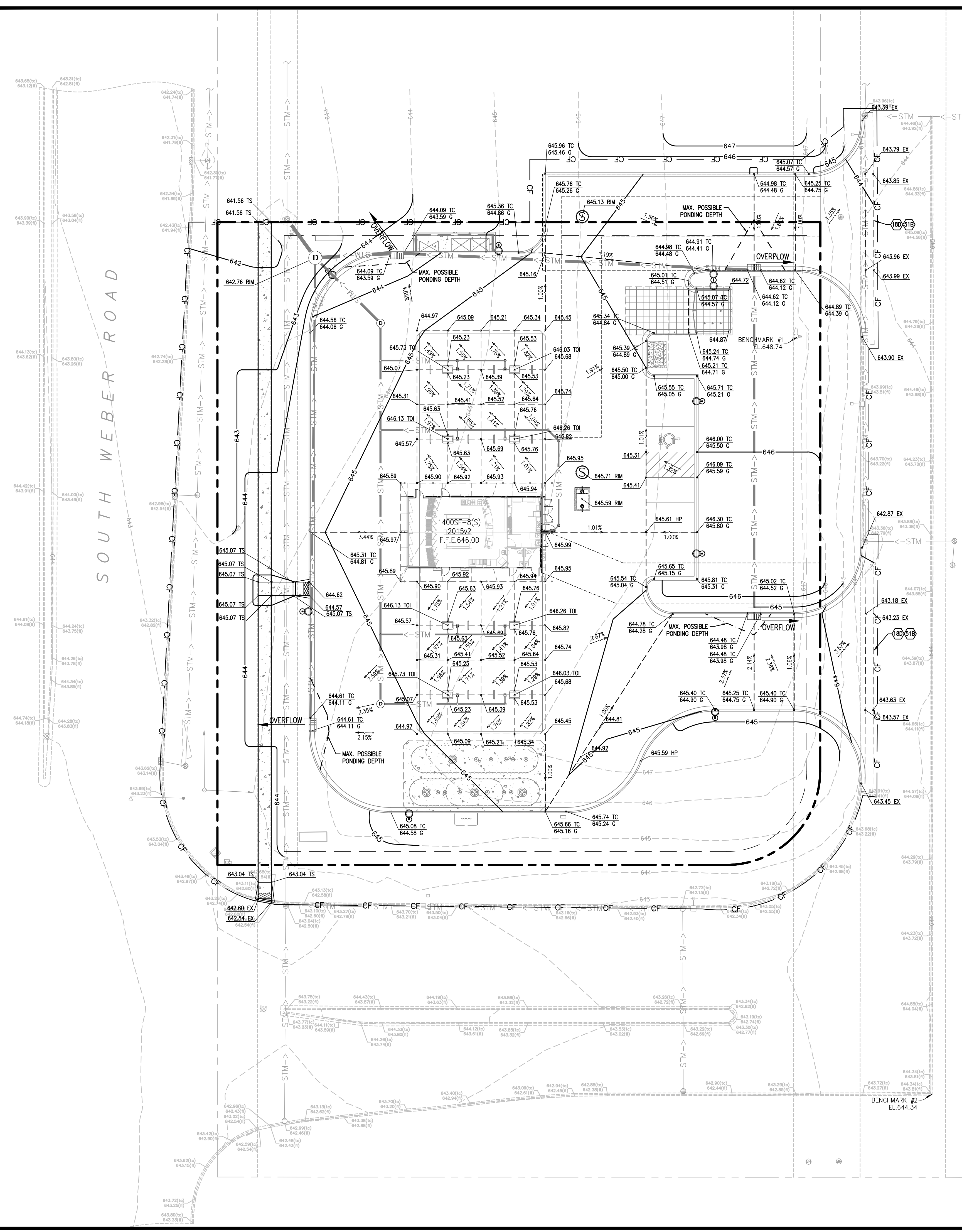
ALTA / ACSM  
LAND TITLE SURVEY



W-T LAND SURVEYING, INC.  
LAND AND CONSTRUCTION SURVEYORS  
STATE OF ILLINOIS )  
COUNTY OF COOK )  
FRANK J. MATOCC - PLS #035-003556 EXPIRES 11/30/2012  
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 187-004387

REVISIONS	DATE	BY





EXISTING	
	PROPERTY LINE
	CENTER LINE
	EASEMENT LINE
	BUILDING SETBACK
	RECORD DATA
	TOP OF GROUND, ETC.
	SPOT GRADE
	BOTTOM OF (GRAVEL, OUTLETS, ETC.)
	CONCRETE
	EVERGREEN/DECIDUOUS
	SHRUB/SHRUB LINE
	MONITOR WELL
	GAS VALVE
	TYPICAL SIGN
	FLARED END SECTION
	CLOSED MANHOLE
	OPEN GRATE MANHOLE
	BEEHIVE GRATE MANHOLE
	VALVE VAULT
	FIRE HYDRANT
	B-BOX/SERVICE VALVE
	POST LIGHT
	AREA LIGHT
	STREET LIGHT
	TRAFFIC SIGNAL
	MAST ARM SIGNAL
	HANDHOLE (ELECTRIC/TRAFFIC)
	ELECTRIC METER
	PEDESTAL (TELECOM, ELEC, CABLE)
	UTILITY POLE
	TELEPHONE VAULT
	GUARDRAIL
	GUY WIRE ANCHOR
	CONTOUR LINE
	TREE LINE / HEDGE LINE
	FENCE LINE
	EDGE GRAVEL/STONE
	STORM SEWER
	SANITARY SEWER
	COMBO SEWER
	WATER SERVICE LINE
	WATERMAIN
	OVERHEAD LINE
	FIBER OPTIC LINE
	GAS LINE
	U.G. TELCO LINE
	U.G. ELECTRIC LINE
PROPOSED	
	PROPERTY LINE
	PROPOSED INTEGRAL CURB
	PROPOSED CONTOUR
	CONSTRUCTION FENCE
	CONSTRUCTION FENCE ON PAVEMENT (SEE DETAIL SHEETS)
	DRAINAGE SLOPE AND DIRECTION
	SPOT ELEVATIONS:
	TOP OF CURB
	TOP OF ISLAND
	EXISTING ELEVATION
	TOP OF SIDEWALK
	PROPOSED STORM SEWER PIPE

- GENERAL GRADING NOTES
- A. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- B. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- C. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- D. REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
- E. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- F. ALL HDPE SHALL BE N-12 WT. IB (OR EQUIVALENT) WITH SMOOTH INTERIOR AND ANNUAL EXTERIOR CORRUGATIONS. 4"-60" PIPE SHALL MEET ASTM F2848 (OR ASHTO M252 TYPE S) REQUIREMENTS, AND SHALL HAVE A MINIMUM MANNINGS "n" DESIGN VALUE OF 0.012. JOINTS SHALL BE WATERIGHT ACCORDING TO ASTM D3212 (OR ASHTO M252, M294) REQUIREMENTS. GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. JOINT PERFORMANCE, FITTINGS, MATERIAL PROPERTIES, AND INSTALLATION SHALL BE DONE PER THE COMPLETE ADS SPECIFICATION FOR ADS N-12 WT. IB PIPE FOUND IN THE ADS, INC. DRAINAGE HANDBOOK, LATEST EDITION.
- G. IF USING HDPE PERFORATED PIPE FOR SUBSURFACE DRAINAGE AND DETENTION/RETENTION SYSTEMS, THE PERFORATIONS SHALL MEET THE ASHTO CLASS II STANDARD PERFORATION PATTERN REQUIREMENTS.
- H. ALL STORM SEWER LINES 12"-54" DIAMETER ARE TO BE REINFORCED CONCRETE PIPE ACCORDING TO ASTM C-76 TYPE III UNLESS OTHERWISE INDICATED.

GRADING NOTES

180 MATCH EXISTING PAVEMENT ELEVATIONS

518 LIMITS OF SAWCUT AND PAVEMENT REMOVAL

SHEET NO.  
**C-3**

GreenbergFarrow

1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30309  
TEL: (404) 401-9700  
FAX: (404) 401-9700  
DWC NAME: ROMEVILLE (WEBER), IL  
JOB NO.: 20160930

REV-2

05-26-17

DATE

PRN

JN

PM

JV

DES

KH

DRW

GRADING PLAN

MURPHY EXPRESS

495 S WEBER ROAD

ROMEVILLE

ILLINOIS

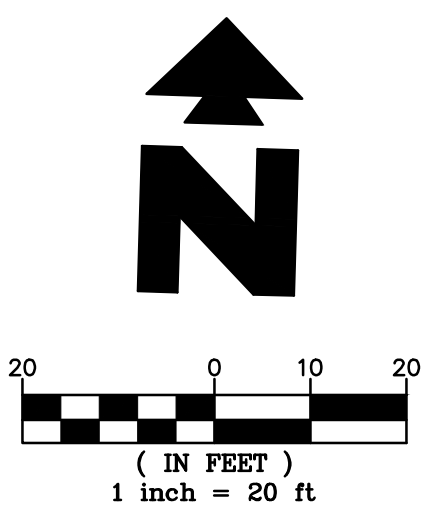
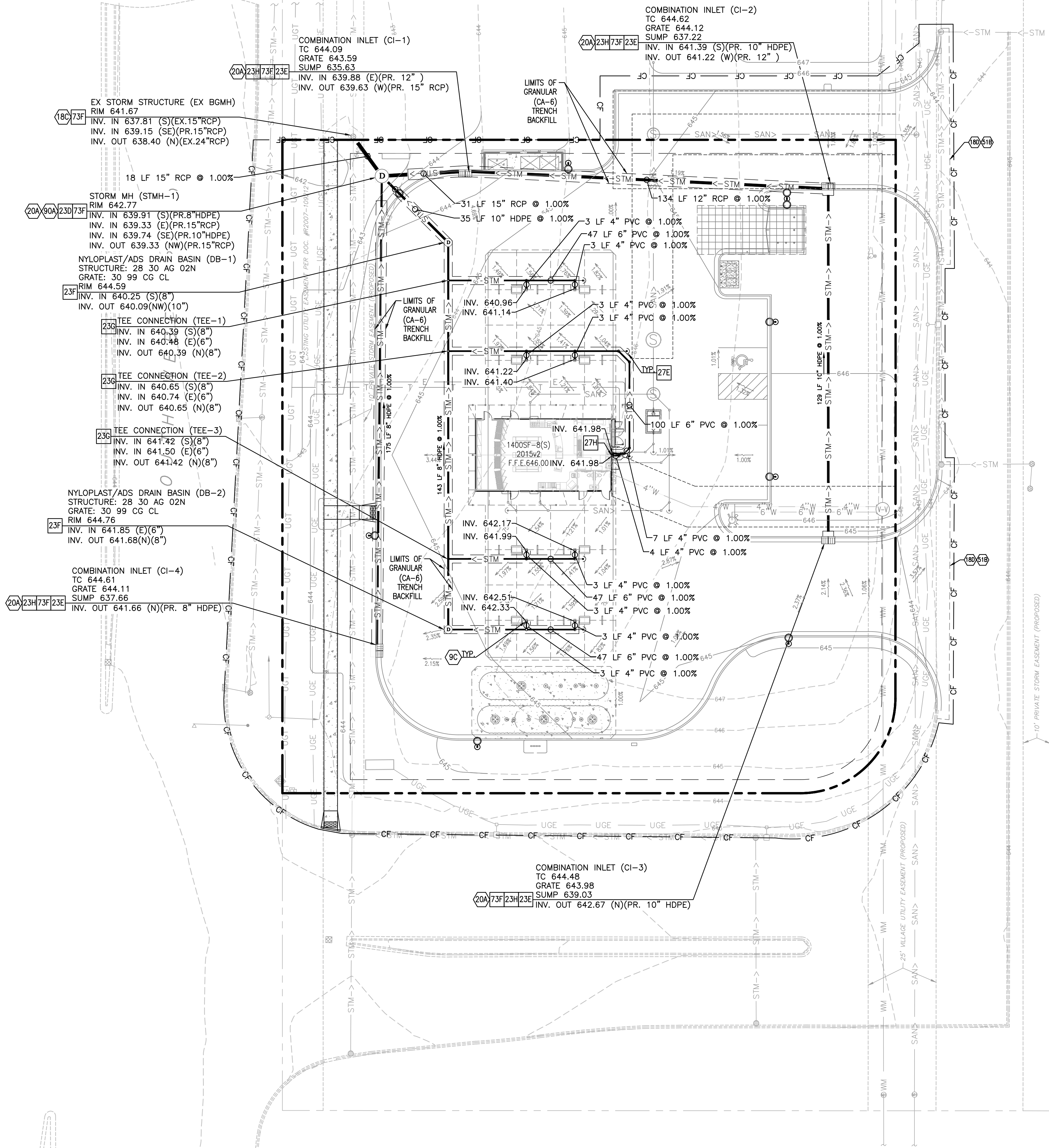
MURPHY OIL USA, INC.

200 PEACH STREET

EL DORADO, AR 71730

MURPHY USA





VILLAGE OF ROMEOVILLE DRAINAGE CERTIFICATION

I, \_\_\_\_\_, HEREBY CERTIFY THAT ADEQUATE STORM WATER STORAGE AND DRAINAGE CAPACITY HAS BEEN PROVIDED FOR THIS DEVELOPMENT, SUCH THAT SURFACE WATER FROM THE DEVELOPMENT WILL NOT BE DIVERTED ONTO AND CAUSE DAMAGE TO ADJACENT PROPERTY FOR STORMS UP TO AND INCLUDING THE ONE HUNDRED (100) YEAR EVENT, AND THAT THE DESIGN PLANS ARE IN COMPLIANCE WITH ALL APPLICABLE STATE, COUNTY, AND VILLAGE ORDINANCES.

VILLAGE OF ROMEOVILLE STORM DRAINAGE NOTE

ALL STORM SEWER JOINTS MUST BE FLEXIBLE GASKET O-RINGS PER ASTM C361, ASTM C443, AND ASTM C1619.

EXISTING

- |                                 |                         |
|---------------------------------|-------------------------|
| PROPERTY LINE                   | POST LIGHT/GROUND LIGHT |
| CENTER LINE                     | AREA LIGHT              |
| EASEMENT LINE                   | STREET LIGHT            |
| BUILDING SETBACK                | TRAFFIC SIGNAL          |
| RECORD DATA                     | MAST ARM SIGNAL         |
| HANDHOLE (electric/traffic)     | GAS METER               |
| ELECTRIC METER                  | ELECTRIC METER          |
| PEDESTAL (telecom, elec, cable) | UTILITY POLE            |
| TELEPHONE VAULT                 | GUARDRAIL               |
| GUY WIRE ANCHOR                 | CONTOUR LINE            |
| TREE LINE / HEDGE LINE          | SHRUB/SHRUB LINE        |
| MONITOR WELL                    | GAS VALVE               |
| TYPICAL SIGN                    | FLARED END SECTION      |
| CLOSED MANHOLE                  | OPEN GRATE MANHOLE      |
| BEEHIVE GRATE MANHOLE           | GUTTER FRAME            |
| VALVE VAULT                     | FIRE HYDRANT            |
| B-BOX/SERVICE VALVE             |                         |

PROPOSED

- |  |                              |
|--|------------------------------|
| PROPERTY LINE                                      | PROPOSED INTEGRAL CURB       |
| PROPOSED CONTOUR                                   | CONSTRUCTION FENCE           |
| CONSTRUCTION FENCE ON PAVEMENT (SEE DETAIL SHEETS) | DRAINAGE SLOPE AND DIRECTION |
| PROPOSED STORM SEWER PIPE                          |                              |

GENERAL GRADING NOTES

- PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS REQUIRED. CORRECTIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION, THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
- CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- ALL HDPE SHALL BE N-12 WT IB (OR EQUIVALENT) WITH SMOOTH INTERIOR AND ANNUAL EXTERIOR CORRUGATIONS. 4"-60" PIPE SHALL MEET ASTM F2848 (OR AASHTO M252 TYPE S) REQUIREMENTS, AND SHALL HAVE A MINIMUM MANNING'S "N" DESIGN VALUE OF 0.012. JOINTS SHALL BE WATERTIGHT ACCORDING TO ASTM D3212 (OR AASHTO M252, M294) REQUIREMENTS. GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. JOINT PERFORMANCE, FITTINGS, MATERIAL PROPERTIES, AND INSTALLATION SHALL BE DONE PER THE COMPLETE ADS SPECIFICATION FOR ADS N-12 WT IB PIPE FOUND IN THE ADS, INC. DRAINAGE HANDBOOK, LATEST EDITION.
- IF USING HDPE PERFORATED PIPE FOR SUBSURFACE DRAINAGE AND DETENTION/RETENTION SYSTEMS, THE PERFORATIONS SHALL MEET THE AASHTO CLASS II STANDARD PERFORATION PATTERN REQUIREMENTS.
- ALL STORM SEWER LINES 12"-54" DIAMETER ARE TO BE REINFORCED CONCRETE PIPE ACCORDING TO ASTM C-76 TYPE II UNLESS OTHERWISE INDICATED.

STORM SEWER NOTES

- CONNECT DOWN SPOUTS TO DRAIN PIPE (SEE ARCH. PLANS FOR EXACT NO. AND LOCATION OF DOWN SPOUTS)
- CONNECT TO EXISTING STORM DRAIN MANHOLE OR INLET
- MATCH EXISTING PAVEMENT ELEVATIONS
- ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE AND DRAINS TO CREEK"
- LIMITS OF SAWCUT AND PAVEMENT REMOVAL
- FRAME AND COVER SHALL BE EAST JORDAN 102223 EMBOSSED WITH "STORM AND VILLAGE OF ROMEOVILLE"

STORM DETAILS - SEE DETAIL SHEETS

- |     |   |
|-----|---|
| 23D | STORM DRAIN MANHOLE   |
| 23E | COMBINATION INLET   |
| 23F | NYLOPLAST ENGINEERED STRUCTURE MANUFACTURED BY ADS PIPE (OR APPROVED EQUAL). SEE STRUCTURE AND GRATE/LID MODEL NUMBER INDICATED AT SYMBOL. STRUCTURES IN DRIVES MUST BE DESIGNED TO WITHSTAND H-20 LOADING. STRUCTURES IN LANDSCAPED AREAS USE NON-TRAFFIC INSTALLATION DETAIL. |
| 23G | TEE CONNECTION (INSERTA TEE OR EQUIVALENT WATER TIGHT CONNECTION)   |
| 23H | INSTALL STORMWATER QUALITY INSERT INSIDE STORMWATER INLET. THE INSERT MUST BE BIO-SKIRT WITH SNOOT FROM BEST MANAGEMENT PRODUCTS, INC. OR APPROVED EQUAL.   |
| 27E | STORM DRAIN CLEAN-OUT   |
| 27H | ROOF DRAINAGE DOWNSPOUT CONNECTION  |
| 73F | WATERSTOP STRUCTURE CONNECTION FOR HOPE PIPE CONNECTION TO CONCRETE STRUCTURE.  |

SHEET NO.

C-3.1



STORM DRAINAGE PLAN  
MURPHY EXPRESS  
495 S WEBER ROAD  
ROMEOVILLE  
ILLINOIS

GreenbergFarrow

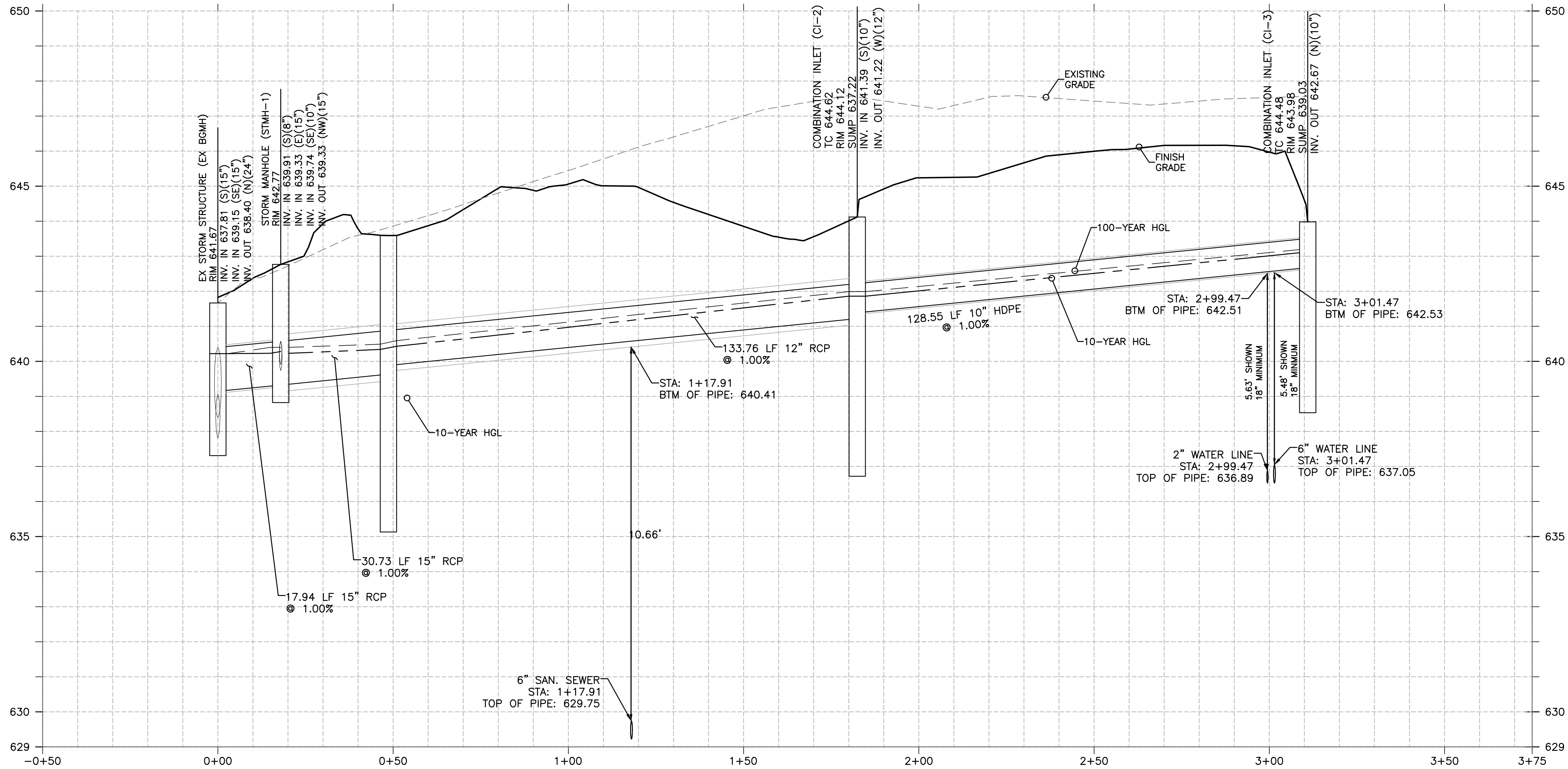
1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30309  
TEL: (404) 401 9600  
FAX: (404) 401 9670  
DWG NAME: ROMEOVILLE (WEBER), IL  
JOB NO.: 20160930

MURPHY OIL USA, INC.

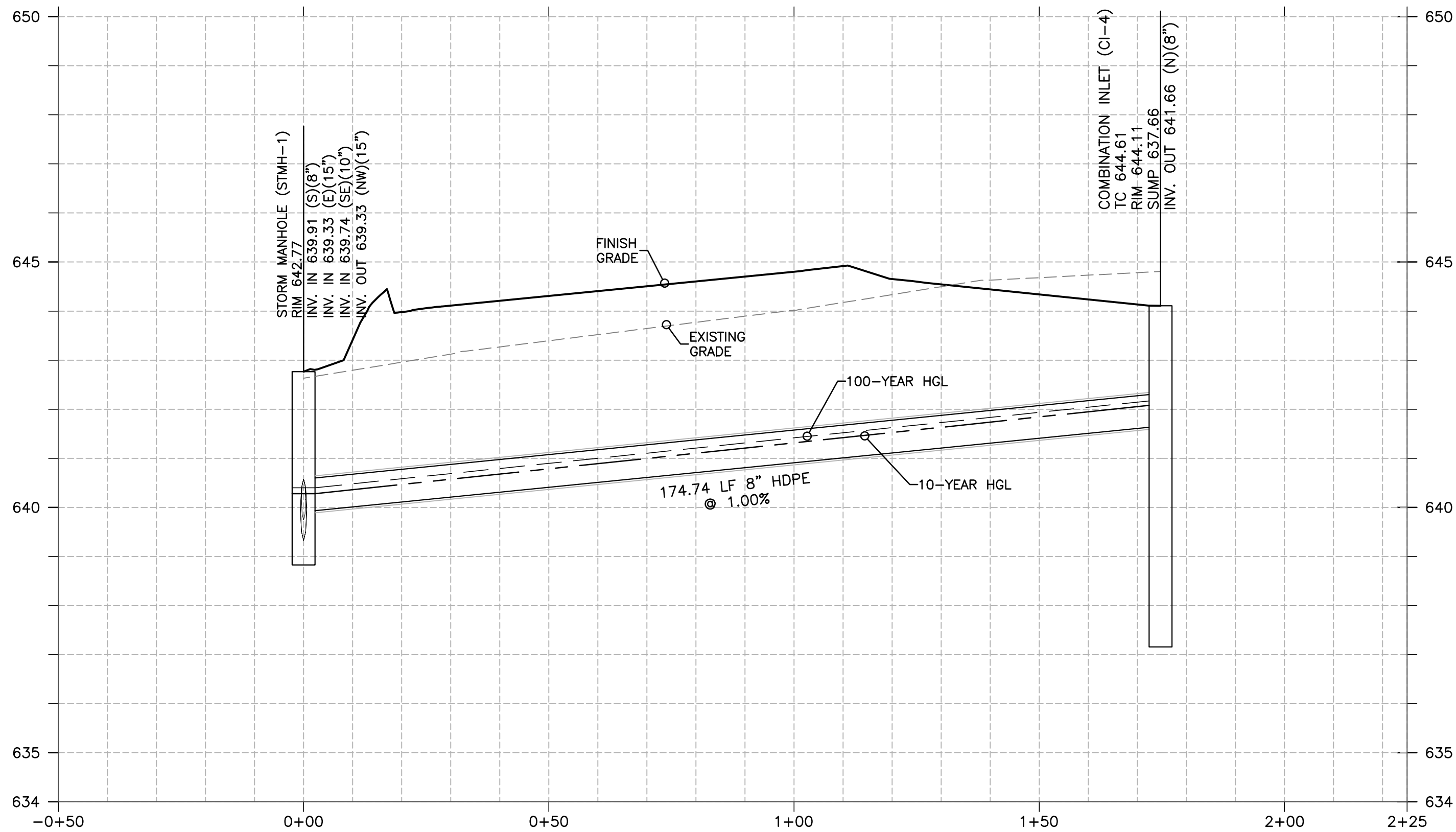
MURPHY  
USA

200 PEACH STREET  
EL DORADO, AR 71730





STORM (FROM EX BGMH TO PR CI-3)  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'



STORM (FROM STMH-1 TO CI-4)  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'

10-Year Pipe Chart																			
Structue Up	Structure Down	Pipe Length	Incr Area	Total Area	Runoff Coeff.	Incr C x A	Total C x A	Inlet Time	Time Conc	Rainfall Intensity	Total Runoff	Total Flow	Capacit y Full	Velocity	Pipe Size	Pipe Material	Pipe Slope	Inv ElevDn	Inv ElevUp
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(cfs)	(ft/s)	(in)		(%)	(ft)	(ft)
1	Outfall	17.935	0	0.75	0	0	0.71	0	7.2	6.9	4.94	4.94	7.01	4.82	15	RCP	1	639.15	639.33
2	1	30.728	0.13	0.47	0.95	0.12	0.45	5	7	6.9	3.1	3.1	6.99	3.79	15	RCP	1	639.33	639.63
3	2	133.763	0.2	0.34	0.95	0.19	0.32	5	6.3	6.9	2.24	2.24	3.86	4.66	12	RCP	1	639.88	641.22
4	3	128.548	0.14	0.14	0.95	0.13	0.13	5	5	6.9	0.92	0.92	2.37	3.1	10	HDPE	1	641.39	642.67
5	1	34.578	0.16	0.16	0.95	0.15	0.15	5	5	6.9	1.05	1.05	2.37	3.31	10	HDPE	1	639.74	640.09
6	1	174.735	0.12	0.12	0.95	0.11	0.11	5	5	6.9	0.79	0.79	1.31	3.67	8	HDPE	1	639.91	641.66

100-Year Pipe Chart																			
Structue Up	Structure Down	Pipe Length	Incr Area	Total Area	Runoff Coeff.	Incr C x A	Total C x A	Inlet Time	Time Conc	Rainfall Intensity	Total Runoff	Total Flow	Capacit y Full	Velocity	Pipe Size	Pipe Material	Pipe Slope	Inv ElevDn	Inv ElevUp
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(cfs)	(ft/s)	(in)		(%)	(ft)	(ft)
STMH-1	EX BGMH	17.935		0.75			0.71		6.5	10.1	7.2	7.2	7.01	6.43	15	RCP	1	639.15	639.33
CI-1	STMH-1	30.728	0.13	0.47	0.95	0.12	0.45	5	6.4	10.1	4.51	4.51	6.99	4.51	15	RCP	1	639.33	639.63
CI-2	CI-1	133.763	0.2	0.34	0.95	0.19	0.32	5	5.9	10.1	3.26	3.26	3.86	5.26	12	RCP	1	639.88	641.22
CI-3	CI-2	128.548	0.14	0.14	0.95	0.13	0.13	5	5	10.1	1.34	1.34	2.37	3.47	10	HDPE	1	641.39	642.67
DB-1	STMH-1	34.578	0.16	0.16	0.95	0.15	0.15	5	5	10.1	1.54	1.54	2.37	3.65	10	HDPE	1	639.74	640.09
CI-4	STMH-1	174.735	0.12	0.12	0.95	0.11	0.11	5	5	10.1	1.15	1.15	1.31	4.1	8	HDPE	1	639.91	641.66

SHEET NO.

C-3.2



STORM DRAINAGE PROFILES  
MURPHY EXPRESS  
495 S WEBER ROAD  
ROMEIOVILLE  
ILLINOIS

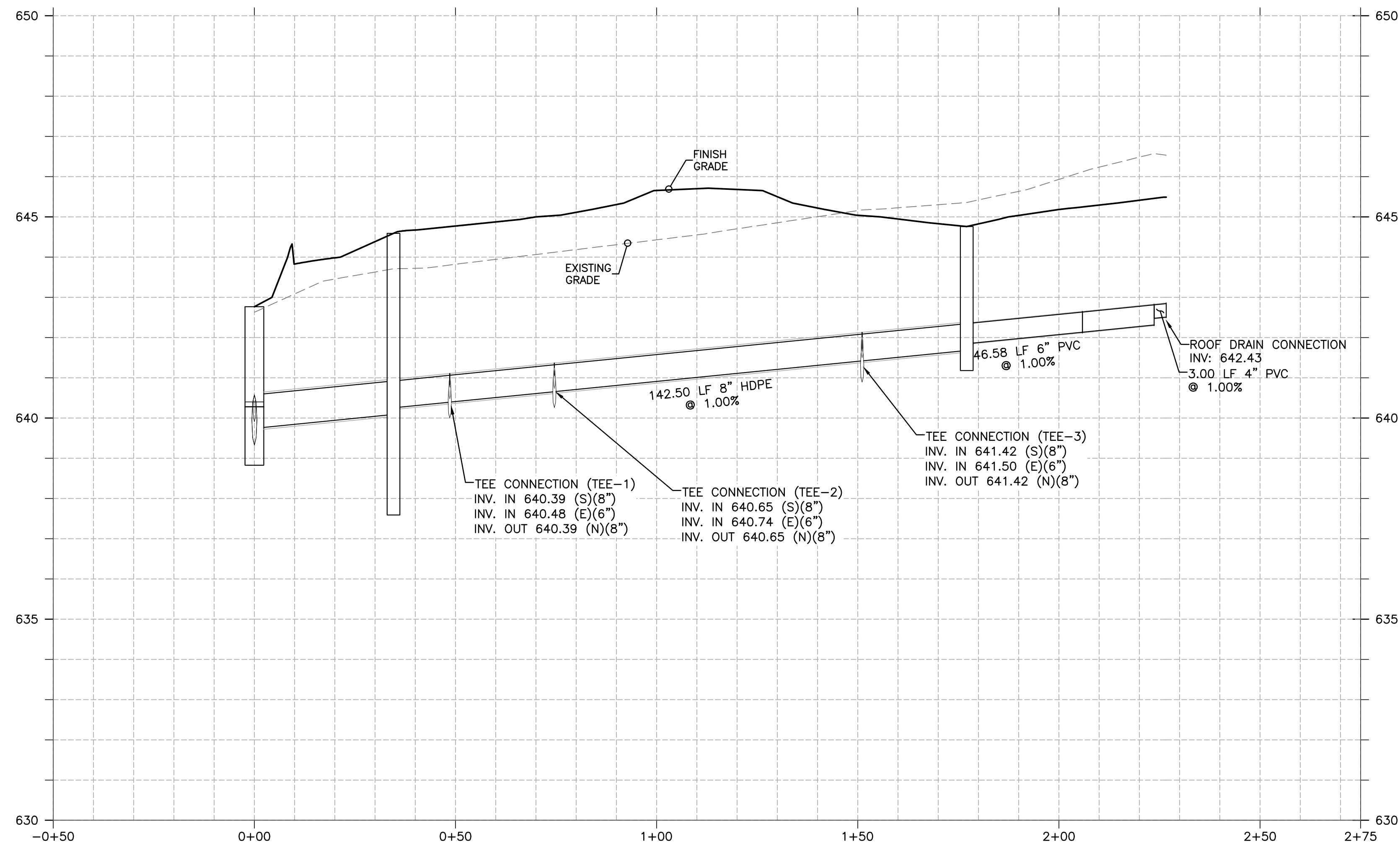
GreenbergFarrow

1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30369  
TEL: (404) 525-8800  
FAX: (404) 401-3970  
DWG NAME: ROMEIOVILLE (WEBER), IL  
JOB NO.: 20160930

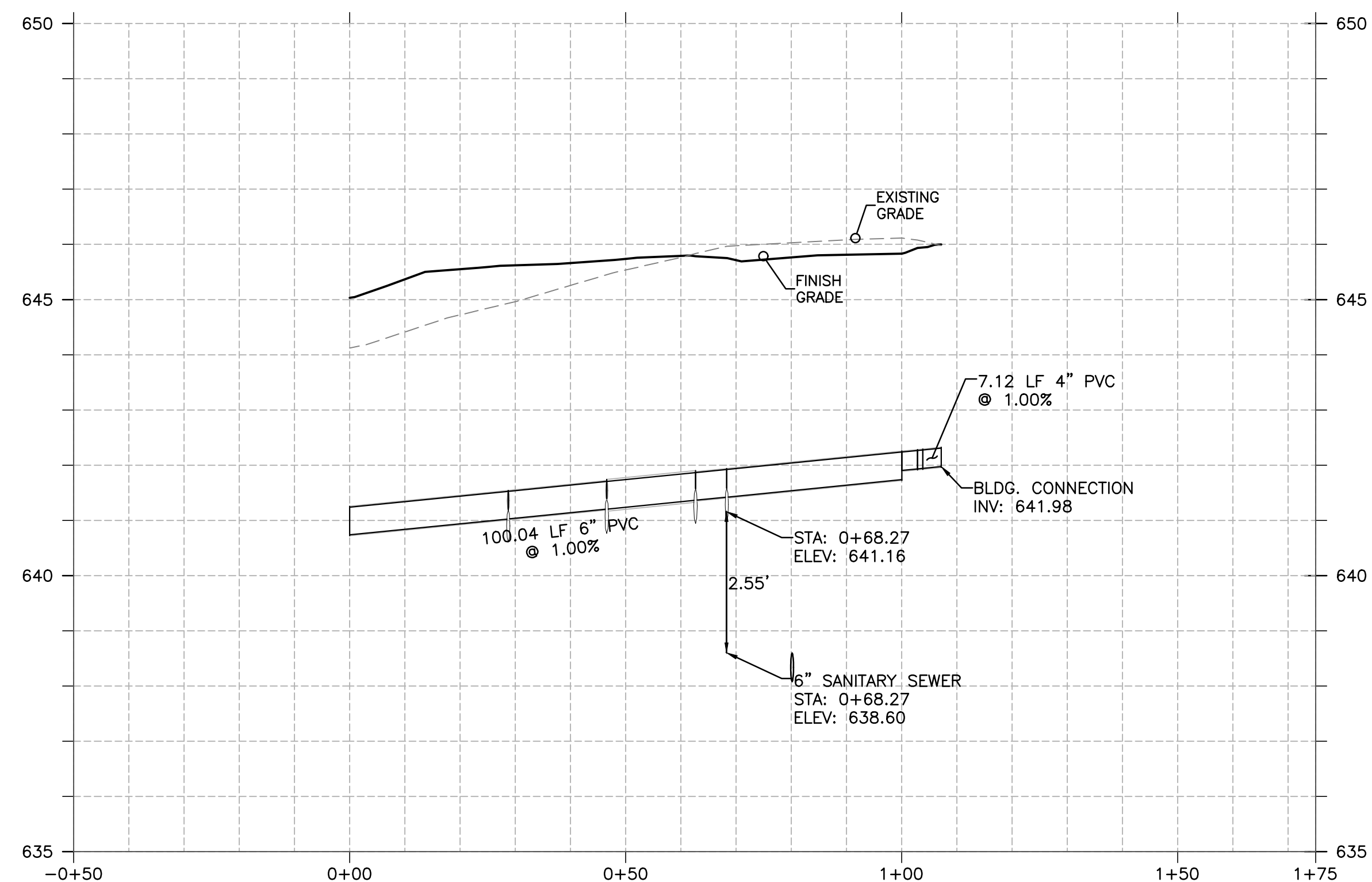
MURPHY OIL USA, INC.

MURPHY  
USA  
200 PEACH STREET  
EL DORADO, AR 71730

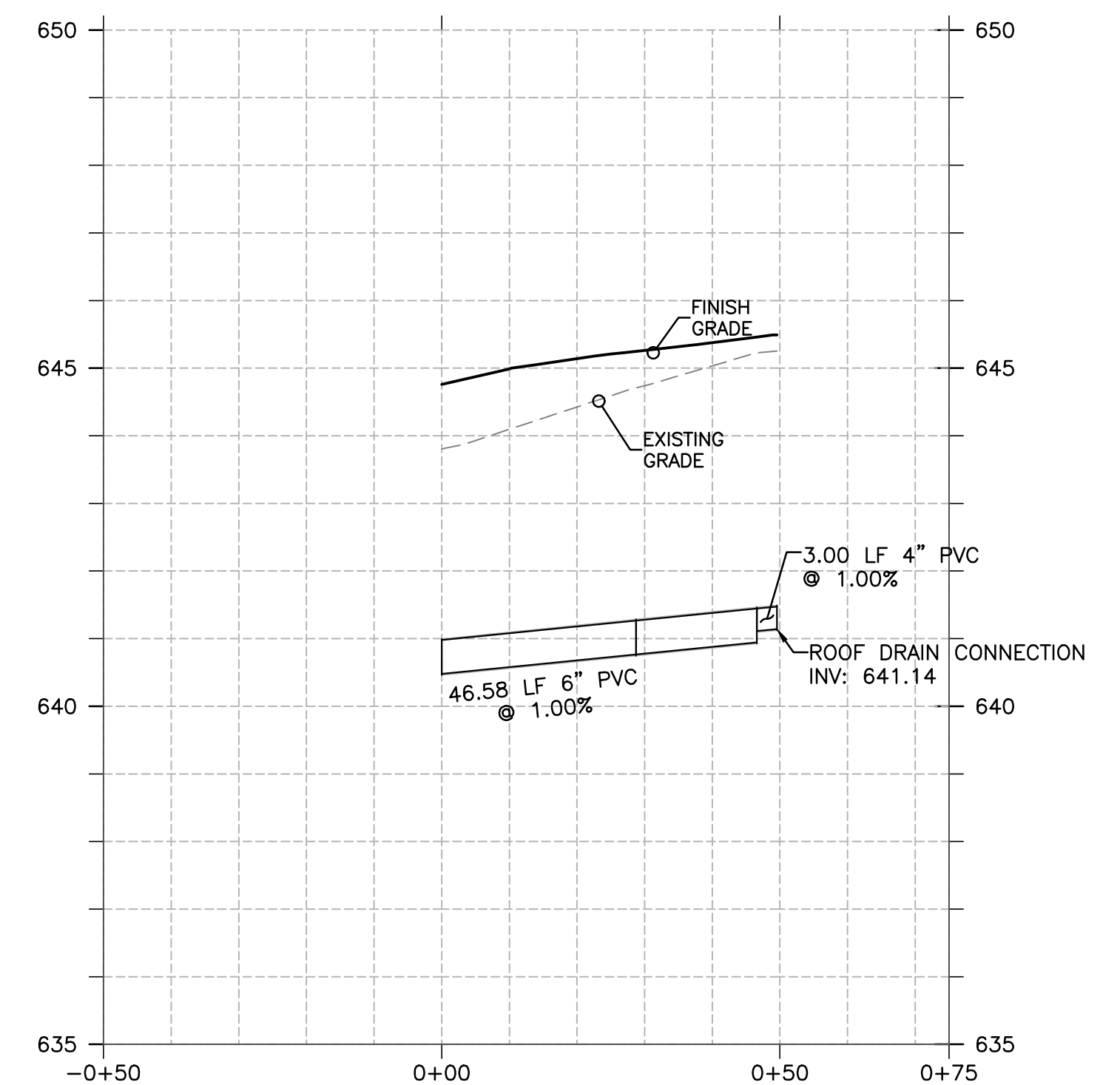




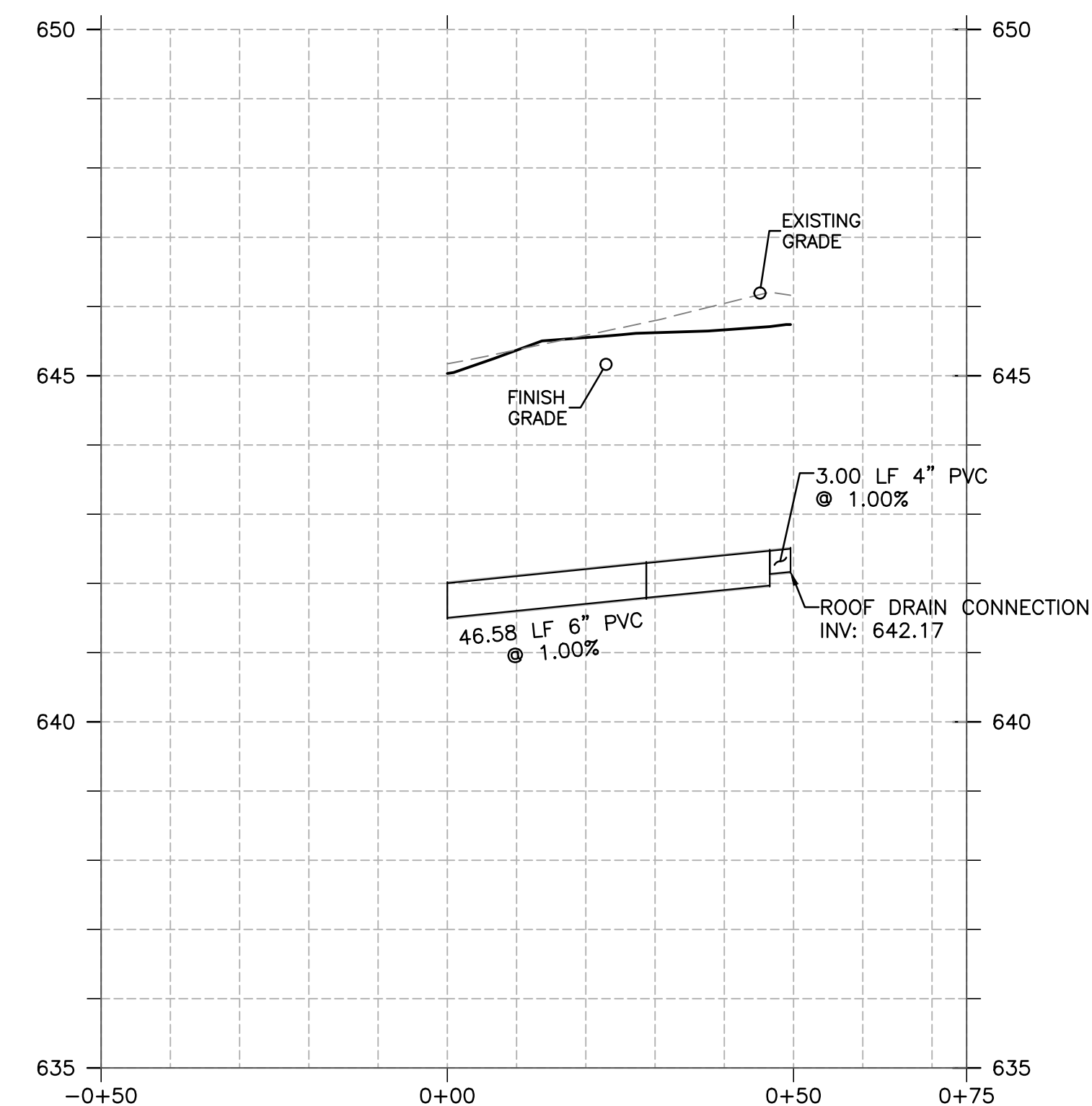
ROOF DRAIN (FROM STMH-1 TO SS ROOF)  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'



BUILDING DRAIN  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'



ROOF DRAIN (N)  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'



ROOF DRAIN (S)  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'

SHEET NO.  
**C-3.3**

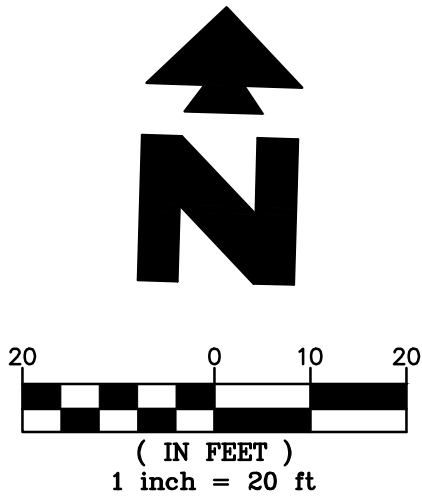
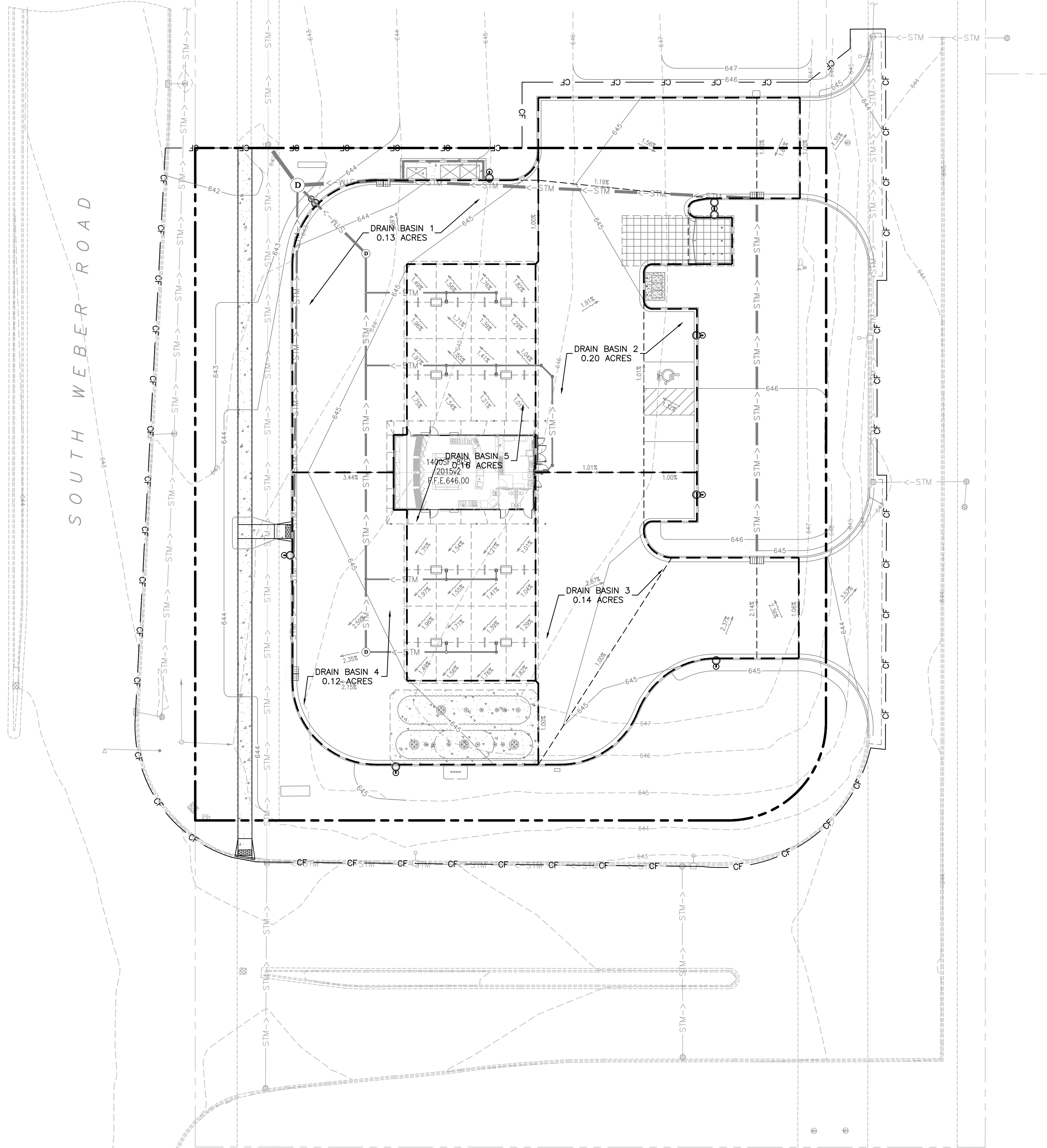


REV-2  
DATE: 05-26-17  
JN PRN  
JV PM  
KH DES  
KH DRW  
**STORM DRAINAGE PROFILES**  
**MURPHY EXPRESS**  
**495 S WEBER ROAD**  
**ROMEIOVILLE ILLINOIS**

**GreenbergFarrow**  
1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30360  
TEL: (404) 524-8800  
FAX: (404) 401-3970  
DWG NAME: ROMEIOVILLE (WEBER), IL  
JOB NO.: 20160930

**MURPHY OIL USA, INC.**  
**MURPHY USA**  
200 PEACH STREET  
EL DORADO, AR 71730





EXISTING

- |   |                                 |
|---|---------------------------------|
| PROPERTY LINE                           | POST LIGHT (GROUND LIGHT)       |
| CENTER LINE                             | AREA LIGHT                      |
| EASEMENT LINE                           | STREET LIGHT                    |
| BUILDING SETBACK                        | TRAFFIC SIGNAL                  |
| RECORD DATA                             | MAST ARM SIGNAL                 |
| (XXX) TOP OF (CURB, WALL, ETC.)         | HANDHOLE (electric, traffic)    |
| XXXXX SPOT GRADE                        | GAS METER                       |
| CONCRETE                                | ELECTRIC METER                  |
| EVERGREEN/DECIDUOUS WITH SIZE IN INCHES | PEDESTAL (telecom, elec, cable) |
| SHRUB/SHRUB LINE                        | UTILITY POLE                    |
| MONITOR WELL                            | TELEPHONE VAULT                 |
| GAS VALVE                               | GUARDRAIL                       |
| TYPICAL SIGN                            | GUY WIRE ANCHOR                 |
| FLARED END SECTION                      | CONTOUR LINE                    |
| CLOSED MANHOLE                          | TREE LINE / HEDGE LINE          |
| OPEN GRATE MANHOLE                      | EDGE GRAVEL/STONE               |
| BEEHIVE GRATE MANHOLE                   | FENCE LINE                      |
| GUTTER FRAME                            | STORM SEWER                     |
| VALVE VAULT                             | SANITARY SEWER                  |
| FIRE HYDRANT                            | COMBO SEWER                     |
| B-BOX/SERVICE VALVE                     | WATER SERVICE LINE              |
|   | WATERMAIN                       |
|   | OVERHEAD LINE                   |
|   | FIBER OPTIC LINE                |
|   | GAS LINE                        |
|   | U.G. TELCO LINE                 |
|   | U.G. ELECTRIC LINE              |

PROPOSED

- |                  |  |
|------------------|--|
| PROPERTY LINE    | PROPOSED INTEGRAL CURB                             |
| PROPOSED CONTOUR |  |
| CF               | CONSTRUCTION FENCE                                 |
| CFP              | CONSTRUCTION FENCE ON PAVEMENT (SEE DETAIL SHEETS) |
| STM-->           | PROPOSED STORM SEWER PIPE                          |
- SPOT ELEVATIONS:
- XXXX TC TOP OF CURB
  - XXXX G GUTTER
  - XXXX TOI TOP OF ISLAND
  - XXXX EX EXISTING ELEVATION
  - XXXX TS TOP OF SIDEWALK

MURPHY OIL USA, INC.

MURPHY  
USA

200 PEACH STREET  
EL DORADO, AR 71730

GreenbergFarrow

1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30360  
TEL: (404) 524-8800  
FAX: (404) 524-8800  
DWC NAME: ROMEIOVILLE (WEBER), IL  
JOB NO.: 20160930

DRAINAGE AREA MAP  
MURPHY EXPRESS

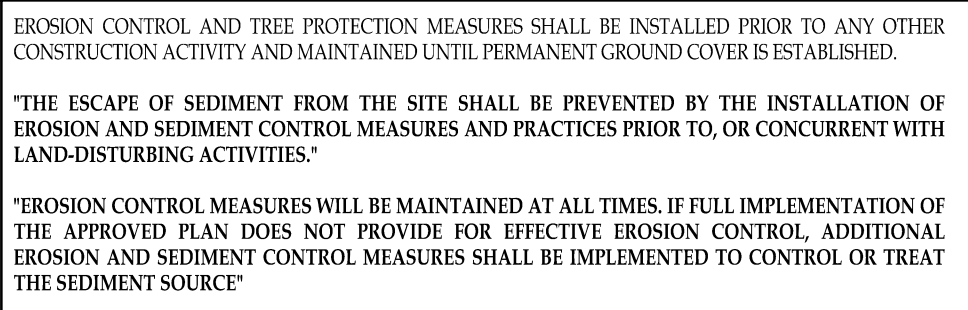
495 S WEBER ROAD  
ROMEIOVILLE ILLINOIS

SHEET NO.

C-3.4

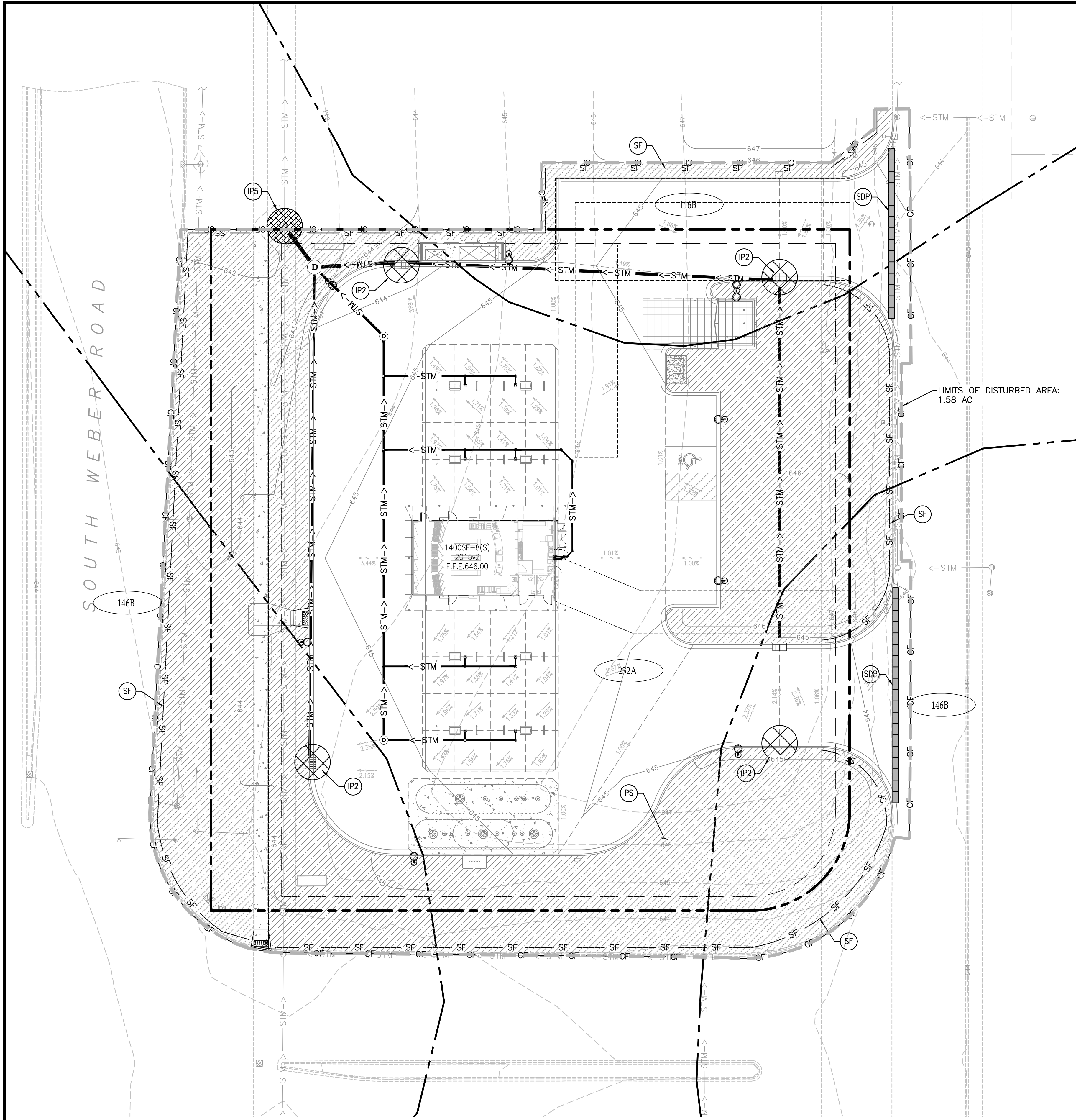






JOHN NOURZAD





GENERAL EROSION NOTES

- A. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THIS STORM WATER POLLUTION PREVENTION PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- B. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- C. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- D. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN, OR AS REQUIRED BY THE APPLICABLE GENERAL PERMIT. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- E. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. CONTRACTOR SHALL CONSTRUCT TEMPORARY BERM ON DOWNSTREAM SIDES AS NEEDED.
- F. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- G. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLotation BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- H. DUST ON THE SITE SHALL BE MINIMIZED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- I. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- J. ALL DENUDED/BARE AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF MOST RECENT GRADING ACTIVITY, WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAW/HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS.
- K. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND/OR VEGETATED IMMEDIATELY, OR STABILIZED AS SHOWN ON PLANS, NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- L. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED.
- M. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- N. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- O. ON-SITE AND OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- P. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- Q. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
- R. GENERAL CONTRACTOR IS TO DESIGNATE/IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.

SEQUENCE OF CONSTRUCTION

- PHASE I
1. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
  2. PREPARE TEMPORARY PARKING AND STORAGE AREA.
  3. CONSTRUCT THE SILT FENCES ON THE SITE.
  4. INSTALL ALL PERIMETER SEDIMENT MEASURES.
  5. INSTALL ALL TEMPORARY EROSION & SEDIMENT CONTROLS AS NEEDED.
  6. CLEAR AND GRUB THE SITE.
  7. BEGIN GRADING THE SITE.
- PHASE II
8. START CONSTRUCTION OF BUILDING PAD, STRUCTURES, AND OFF-SITE IMPROVEMENTS.
  9. TEMPORARILY SEED DENUDED AREAS.
  10. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
  11. INSTALL INLET/FLUME PROTECTION DEVICES.
  12. INSTALL RIP RAP AROUND OUTLET STRUCTURES.
  13. PREPARE SITE FOR PAVING.
  14. PAVE SITE.
  15. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
  16. REMOVE EROSION AND TEMPORARY SEDIMENT CONTROL DEVICES AFTER FINAL STABILIZATION IS ACHIEVED.

BMP MAINTENANCE NOTES

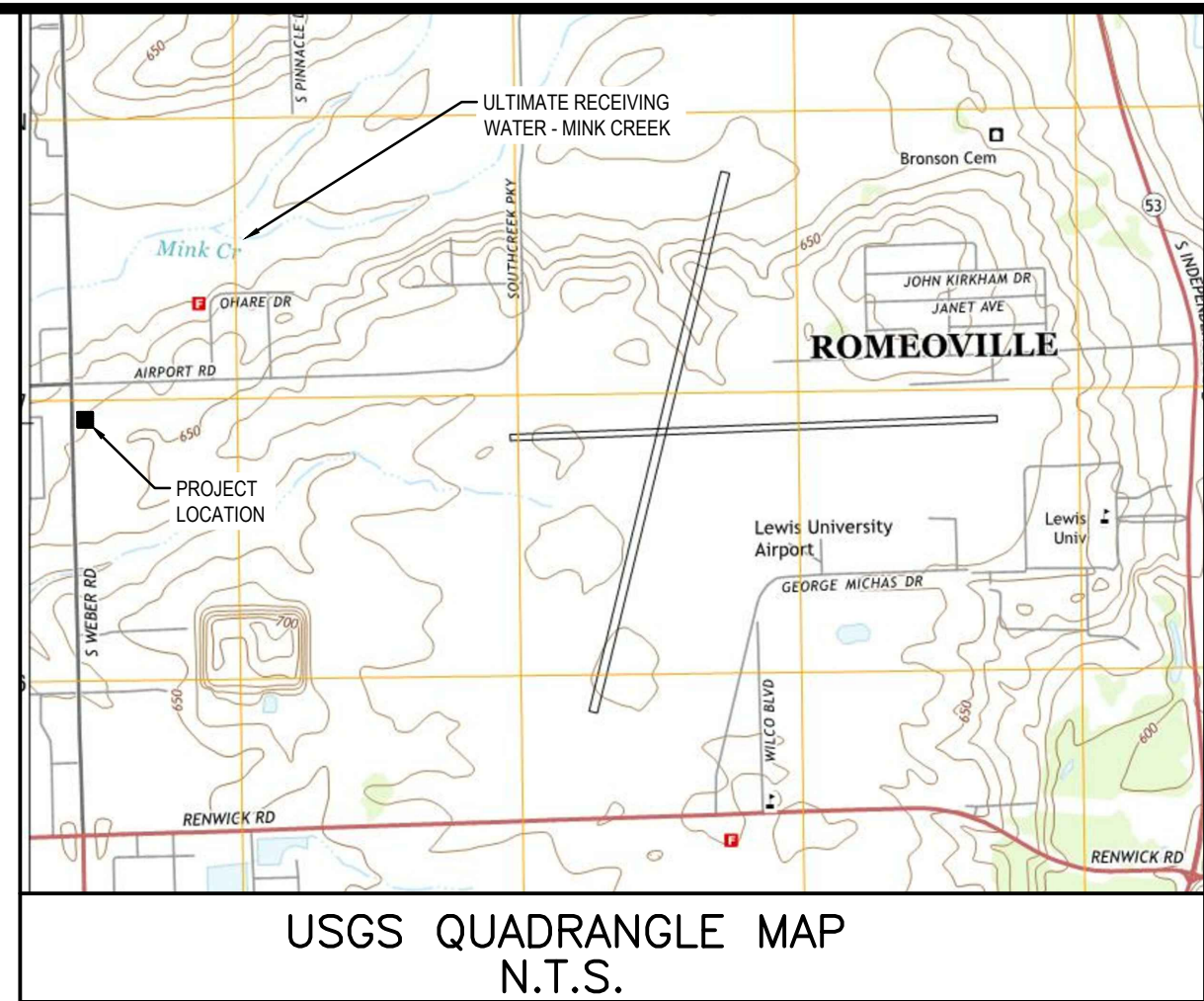
ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURE SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF OF THE SILT FENCE.
4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRED PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.
6. FILTER TUBES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM TUBES WHEN IT REACHES 1/3 OF ITS EXPOSED HEIGHT. SEE DETAILS.
7. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. ANY DEBRIS AND/OR SEDIMENT REACHING THE PUBLIC STREET SHALL BE CLEANED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.

VILLAGE OF ROMEOVILLE EROSION CONTROL NOTES

- "ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE."
- "ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION."
- "MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS."
- "ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL."
- "ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES."
- "DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE."
- "IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS."
- "THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY."

24 HR EMERGENCY CONTACT:  
JASON LAIRD 870-866-7681



EXISTING

- |   |                              |
|---|------------------------------|
| PROPERTY LINE                           | POST LIGHT/GROUND LIGHT      |
| EASEMENT LINE                           | AREA LIGHT                   |
| BUILDING SETBACK                        | STREET LIGHT                 |
| RECORD DATA                             | TRAFFIC SIGNAL               |
| TOP OF (CURB, WALL, ETC.)               | MAST ARM SIGNAL              |
| BOTTOM OF (GRADE, OUTLET, ETC.)         | HANDHOLE (electric/traffic)  |
| CONCRETE                                | GAS METER                    |
| EVERGREEN/DECIDUOUS WITH SIZE IN INCHES | ELECTRIC METER               |
| SHRUB/SHRUB LINE                        | PEDESTAL (elec, elec, cable) |
| MONITOR WELL                            | UTILITY POLE                 |
| GAS VALVE                               | TELEPHONE VAULT              |
| TYPICAL SIGN                            | QUADRAIL                     |
| FLARED END SECTION                      | GUY WIRE ANCHOR              |
| CLOSED MANHOLE                          | CONTOUR LINE                 |
| OPEN GRATE MANHOLE                      | TREE LINE / HEDGE LINE       |
| BEEHIVE GRATE MANHOLE                   | EDGE GRAVEL/STONE            |
| GUTTER FRAME                            | FENCE LINE                   |
| VALVE VAULT                             | STORM SEWER                  |
| FIRE HYDRANT                            | SANITARY SEWER               |
| B-BOX/SERVICE VALVE                     | COMBO SEWER                  |
|   | WATER SERVICE LINE           |
|   | WATERMAIN                    |
|   | FIBER OPTIC LINE             |
|   | GAS LINE                     |
|   | U.G. TELCO LINE              |
|   | U.G. ELECTRIC LINE           |

PROPOSED

- |     |  |
|-----|--|
| --- | BOUNDARY LINE                                      |
| --- | CONSTRUCTION FENCE                                 |
| --- | LIMITS OF DISTURBED AREA                           |
| --- | CONSTRUCTION FENCE ON PAVEMENT (SEE DETAIL SHEETS) |
| ##  | SOIL TYPE DESIGNATION                              |

PROJECT INFORMATION

STORM RUN-OFF FROM SITE WILL PIPE INTO THE EXISTING DETENTION SYSTEM INSTALLED TO ACCOMMODATE STORM RUN-OFF FOR THE GAS STATION LOT. THE EXISTING POND THEN DISCHARGES INTO MINK CREEK ±0.45 MILES TO NORTHWEST OF PROJECT SITE.

PROPOSED PROJECT IS CONSTRUCTING A GAS STATION CONSISTING OF 1,400 S.F. CONVENIENT STORE WITH 8 PUMP ISLANDS AND ASSOCIATED PARKING AREA.

ACREAGE OF SITE IS 1.24 ACRES.

DISTURBED ACREAGE OF SITE (INCLUDING OFF-SITE WORK) IS 1.58 ACRES.

ANTICIPATED CONSTRUCTION START DATE IS JUNE 2017 AND COMPLETION DATE IS SEPTEMBER 2017.

CONTRACTOR TO TAKE APPROPRIATE MEASURES TO KEEP SEDIMENT FROM ESCAPING SITE AND ALL ACCUMULATED SEDIMENT SHALL BE CLEANED OUT AND REMOVED FROM SITE.

DOWNSTREAM CONDITION WILL NOT BE NEGATIVELY AFFECTED BY PROPOSED DEVELOPMENT.

EROSION DETAILS - SEE DETAIL SHEET C-4.2

- |     |   |
|-----|---|
| PS  | PERMANENT STABILIZATION. SEE LANDSCAPE PLANS                |
| SF  | SEDIMENTATION/SILT FENCE WITH WIRE SUPPORT                  |
| SDP | SILT DIKE ON PAVEMENT                                       |
| IP2 | TEMP. BLOCK AND AGGREGATE COMBINATION INLET SEDIMENT FILTER |
| IP5 | INLET FILTER BASKET   |

SITE SOILS

- |      |                        |
|------|------------------------|
| 146B | ELLIOTT SILT LOAM      |
| 232A | ASHKUM SILTY CLAY LOAM |

MAINTENANCE RESPONSIBLE ENTITY

THE FOLLOWING ENTITY IS RESPONSIBLE FOR THE MAINTENANCE OF ALL EROSION CONTROL STRUCTURES AND MEASURES, DURING AND AFTER THE DEVELOPMENT.

ENTITY NAME: MURPHY OIL USA, INC.  
ADDRESS: 200 PEACH ST, EL DORADO, AR 71730  
PHONE: 870-866-7681 (JASON LAIRD)

VILLAGE OF ROMEOVILLE EROSION CONTROL CERTIFICATE

"THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA."

JOHN NOURZAD DATE

GreenbergFarrow

1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30309  
TEL: (404) 401-9700  
FAX: (404) 401-9770  
DWC NAME: ROMEOVILLE (WEBER), IL  
JOB NO.: 20160930

MURPHY OIL USA, INC.

MURPHY  
USA  
200 PEACH STREET  
EL DORADO, AR 71730

SHEET NO.

EROSION CONTROL PHASE 2

MURPHY EXPRESS

495 S WEBER ROAD

ILLINOIS

ROMEOVILLE

C-4.1

MAY 2 8 2017

REV-2

DATE

05-26-17

PRN

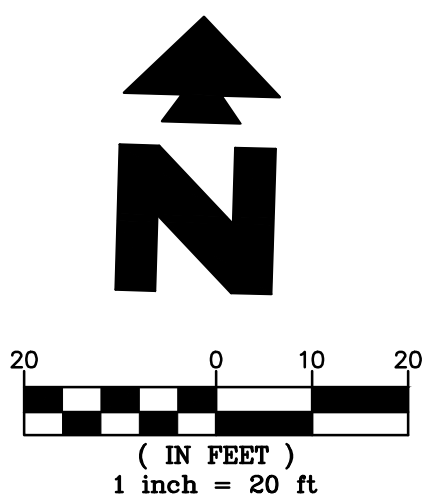
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KH

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EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

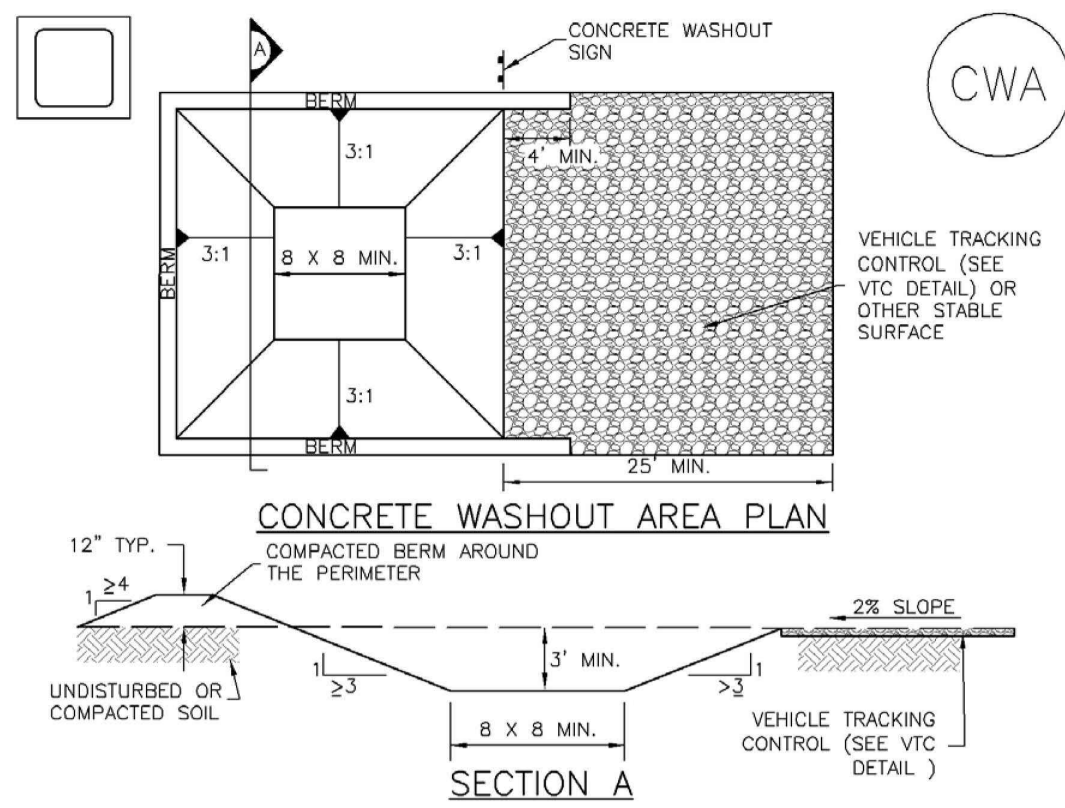
"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES."

"EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE"



## Concrete Washout Area (CWA)

MM-1



CWA-1. CONCRETE WASHOUT AREA

## CWA INSTALLATION NOTES

- SEE PLAN VIEW FOR:  
-CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8" BY 8" SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

November 2010

Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3

CWA-3

MM-1

## Concrete Washout Area (CWA)

## CWA MAINTENANCE NOTES

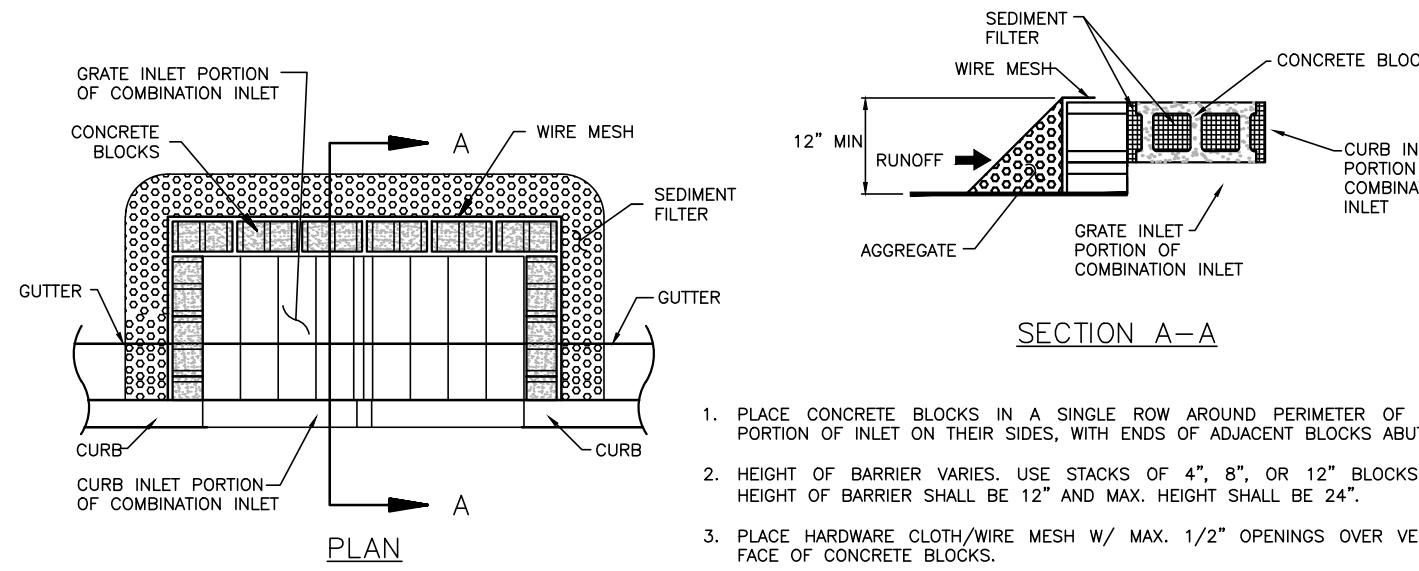
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD).  
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CWA-4

Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3

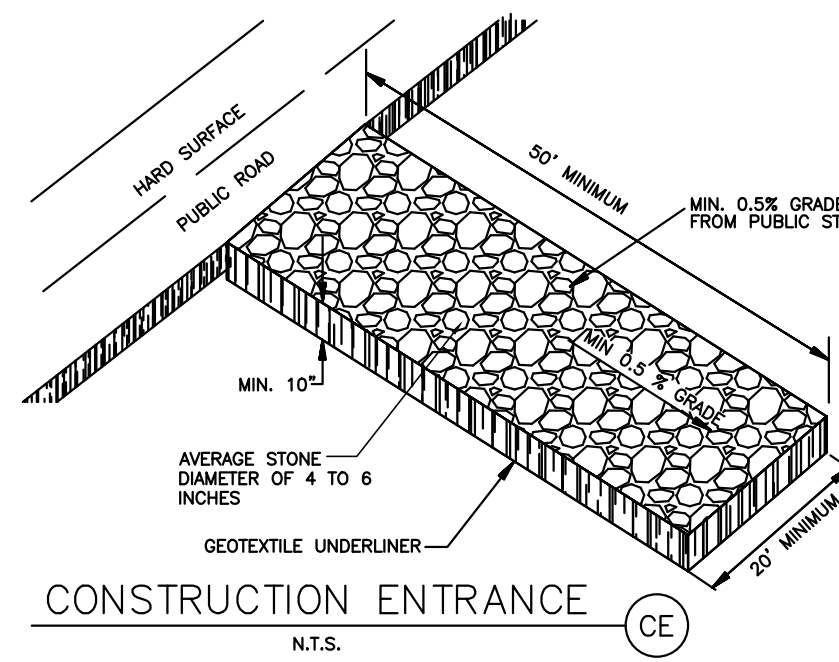
November 2010

TEMPORARY BLOCK AND AGGREGATE COMBINATION INLET  
SEDIMENT FILTER

- PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF GRATE PORTION OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING.
- HEIGHT OF BARRIER VARIES. USE STACKS OF 4", 8", OR 12" BLOCKS. MIN. HEIGHT OF BARRIER SHALL BE 12" AND MAX. HEIGHT SHALL BE 24".
- PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE BLOCKS.
- THE SEDIMENT FILTER SHALL BE 3/4" - 2" ANGULAR CLEAN STONE WHICH WILL SLOW THE FLOW OF WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.

N.T.S.

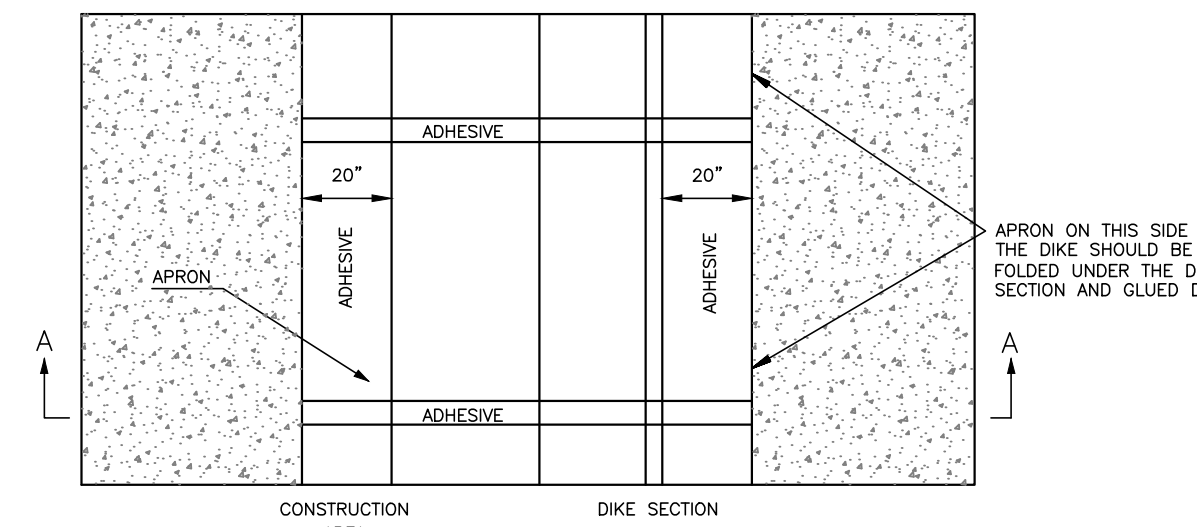
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CONSTRUCTION ENTRANCE

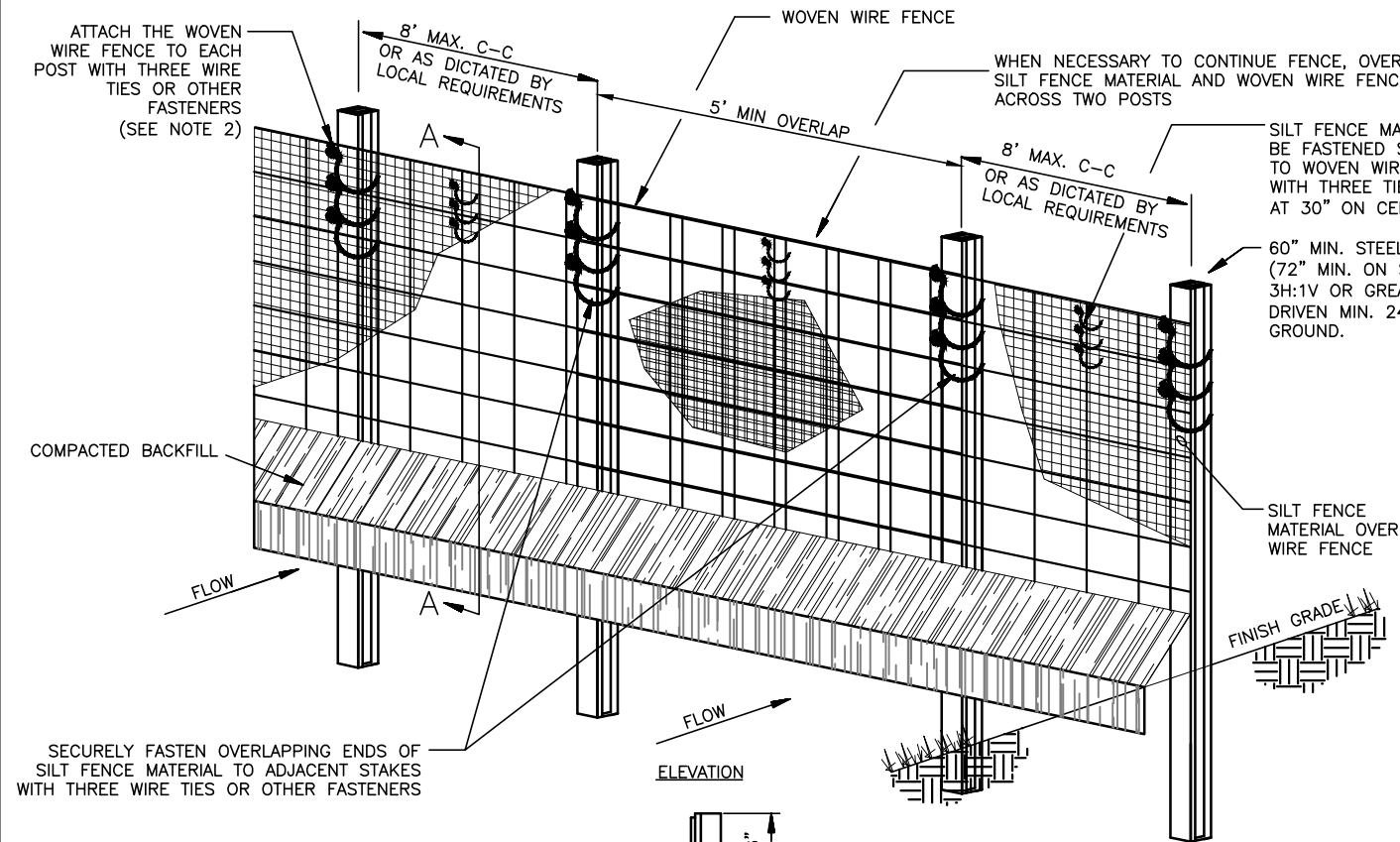
N.T.S.

(CE)

SILT DIKE  
(ON EXISTING PAVEMENT)

N.T.S.

(SDP)



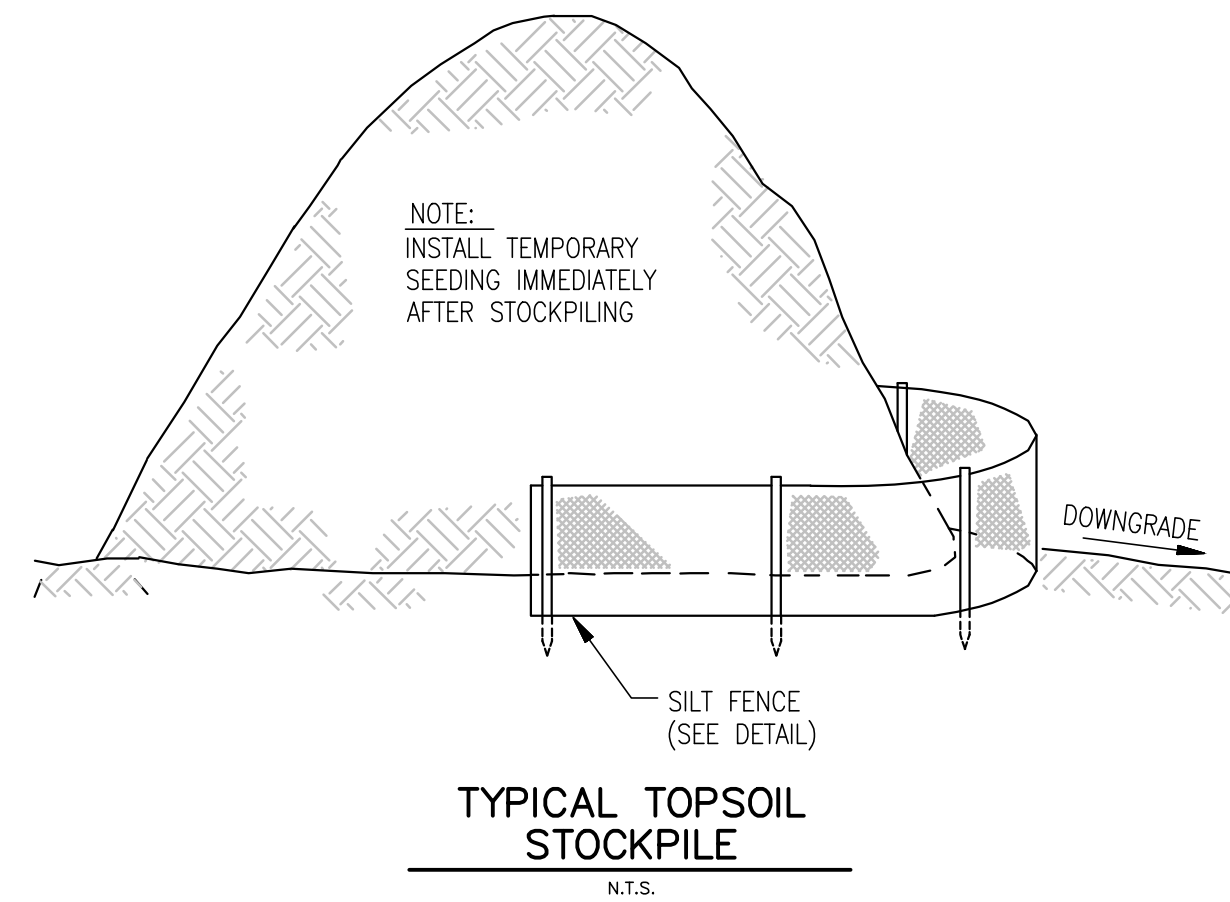
POSTS: STEEL T OR U TYPE.  
FENCE: WOVEN WIRE, 14-1/2 GA., 6" MAX. MESH OPENING  
FABRIC: IN ACCORDANCE WITH ASTM D 8461 LATEST EDITION.

- INSTALLATION SHALL COMPLY WITH ASTM D 8462 LATEST EDITION.
- ATTACH THE WOVEN WIRE FENCE TO EACH POST AND THE GEOTEXTILE TO THE WOVEN WIRE FENCE (SPACED EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART. ALSO, EACH TIE PLACED ON A POST SHOULD BE POSITIONED TO HANG ON A POST HAPLE WHEN TIGHTENED TO PREVENT SAGGING.
- WHEN TWO SECTIONS OF SILT FENCE MATERIAL ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED A MINIMUM OF 60" ACROSS TWO POSTS, AS SHOWN.
- MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-HALF THE HEIGHT OF THE FENCE. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING ONE-HALF THE HEIGHT OF THE SILT FENCE MATERIAL ABOVE GRADE.
- ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS THE STATIC SLICING EQUIPMENT IS UTILIZED TO INSTALL THE FENCE PER FIGURE 6.626 OF THE NCSOPM.
- WRAP APPROXIMATELY 4" OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
- COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SHO DRED, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQ. INCH. COMPACT THE UPSTREAM SIDE FIRST. COMPACT EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS.
- ADD POST CAPS AS NEEDED BASED ON SITE CONDITIONS AND APPLICABLE AGENCY REQUIREMENTS.

## SEDIMENTATION/SILT FENCE WITH WIRE SUPPORT

N.T.S.

(SF)

TYPICAL TOPSOIL  
STOCKPILE

N.T.S.

FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION  
PRODUCT SELECTION AND SPECIFICATION DRAWING

**Product Selection for FLEXSTORM CATCH-IT Filters (Temporary Inlet Protection)**

ILDOT Standard	Neenah Casting	East Jordan Casting	Inlet Type	Grate Size	Flow Rating IL BAG (CFS)	Flow Rating IL BAG (CFS)	ADS P/N
1	1713, 1762, 1772, 2594	1020, 1022, 1090, 1098	Round (RD)	22.25 x 23.5	1.9	1.3	6MRDILT1
2	R-3501-D2, -A	7170, 7171	Roller Curb (RC)	22.25 x 16.25	1.6	0.6	62MSQILT216
3	R3278-A, R-3501-A	7220, 7221	Curb Box (CB)	22.0 x 16.9	1.5	1.0	62MCBILT3
4	R3443-B	5150	Square/Rect (SQ)	21.75 x 14.75	1.5	1.0	62MSQILT
6	R3502-A	7235	Roller Curb (RC)	22 x 22.75	2.3	1.2	62MSQILT6
8	2501, 4349-C, 4352, 4350	2830, 2870, 6927	Round (RD)	Beehive/Ditch Grates	2.3	1.6	62MRDILT8
9	R3508-A2	7300	V-Grate	22.75 x 22.4	2.5	1.2	62MSQILT
10	R3506-A2	7281	V-Grate	19.25 x 19.25	1.7	1.0	62MSQILT
11	R3281-A	7210	Curb Box (CB)	28.75 x 11	2.2	1.1	62MCBILT11
12	R3503-B	7180	Roller Curb (RC)	28.75 x 17.25	2.6	1.3	62MSQILT
20	R3528-V, R3529-V	7536, 5380, 7538 (2 grts)	Square/Rect (SQ)	22.5 x 22.5	2.4	1.2	62MSQILT20
21	R3527-V	7540	Curb Box (CB)	22.5 x 22.5	2.4	1.2	62MCBILT
23	R3525-L	7464	Square/Rect (SQ)	24 x 16.25	2.0	1.0	62MSQILT23
24	R3526-L	7467	Square/Rect (SQ)	24 x 22.25	2.3	1.2	62MSQILT24
31	---	7250	Roller Curb (RC)	25.75 x 18.75	2.5	1.2	62MSQILT
B	R3455C	---	Square/Rect (SQ)	36 x 24	4.6	1.7	62MSQILT
G3/G4	R3501-U	7545	Single W/Flap	13.75/20.2 x 22.12	1.3	0.9	62MCBILT03
	R-3067	7030	Curb Box (CB)	35.5 x 18.0	3.8	2.2	62LCBILT3618
	R-3010	---	Curb Box (CB)	23 x 16	1.5	1.0	62MCBILT
	R-3501-L1A	7010	Curb Box (CB)	23 x 16	1.5	1.0	62MCBILT010
	R-3501-P	7525	Roller Curb (RC)	25.7 x 19	2.4	1.2	62MSQILT3501-P
	R-3501-TR	7495	Roller Curb (RC)	26 x 23.5	3.1	1.4	62LSQILT3501-TR

\*FLOW RATINGS SHOWN ARE 50% MAXIMUM

**INSTALLATION:**

- REMOVE GRATE
- DROP FLEXSTORM INLET FILTER INTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
- REPLACE GRATE

**NOTES:**

- ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL FRAMING FOR PROLONGED PRODUCT LIFE.
- TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE. CONCRETE STRUCTURES MAY REQUIRE ADDITIONAL REVIEW.
- UPON ORDERING THE ADS P/N CONFIRMATION OF THE I.D.T. CALLOUT, FLEXSTORM ITEM CODE, CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.
- FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT [WWW.INLETFILTERS.COM](http://WWW.INLETFILTERS.COM)

**FLEXSTORM CATCH-IT**

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC. A DIVISION OF ADS, INC. [WWW.INLETFILTERS.COM](http://WWW.INLETFILTERS.COM)  
(866) 287-8655 PH  
(630) 355-3477 FX  
[INFO@INLETFILTERS.COM](mailto:INFO@INLETFILTERS.COM)

SIZE: C IL-SUBMIT

SCALE: 1" = 1'-0"

SHEET 1 OF 1

## INLET FILTER BASKET

N.T.S.

(P5)

SHEET NO.

C-4.2



E&amp;S CONTROL DETAILS

MURPHY EXPRESS

495 S WEBER ROAD  
ROMEIOVILLE ILLINOIS

GreenbergFarrow

1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30309  
TEL: (404) 524-1000  
FAX: (404) 524-1000  
DWC NAME: ROMEIOVILLE (WEBER), IL  
JOB NO.: 20160930

MURPHY OIL USA, INC.

200 PEACH STREET  
EL DORADO, AR 71730

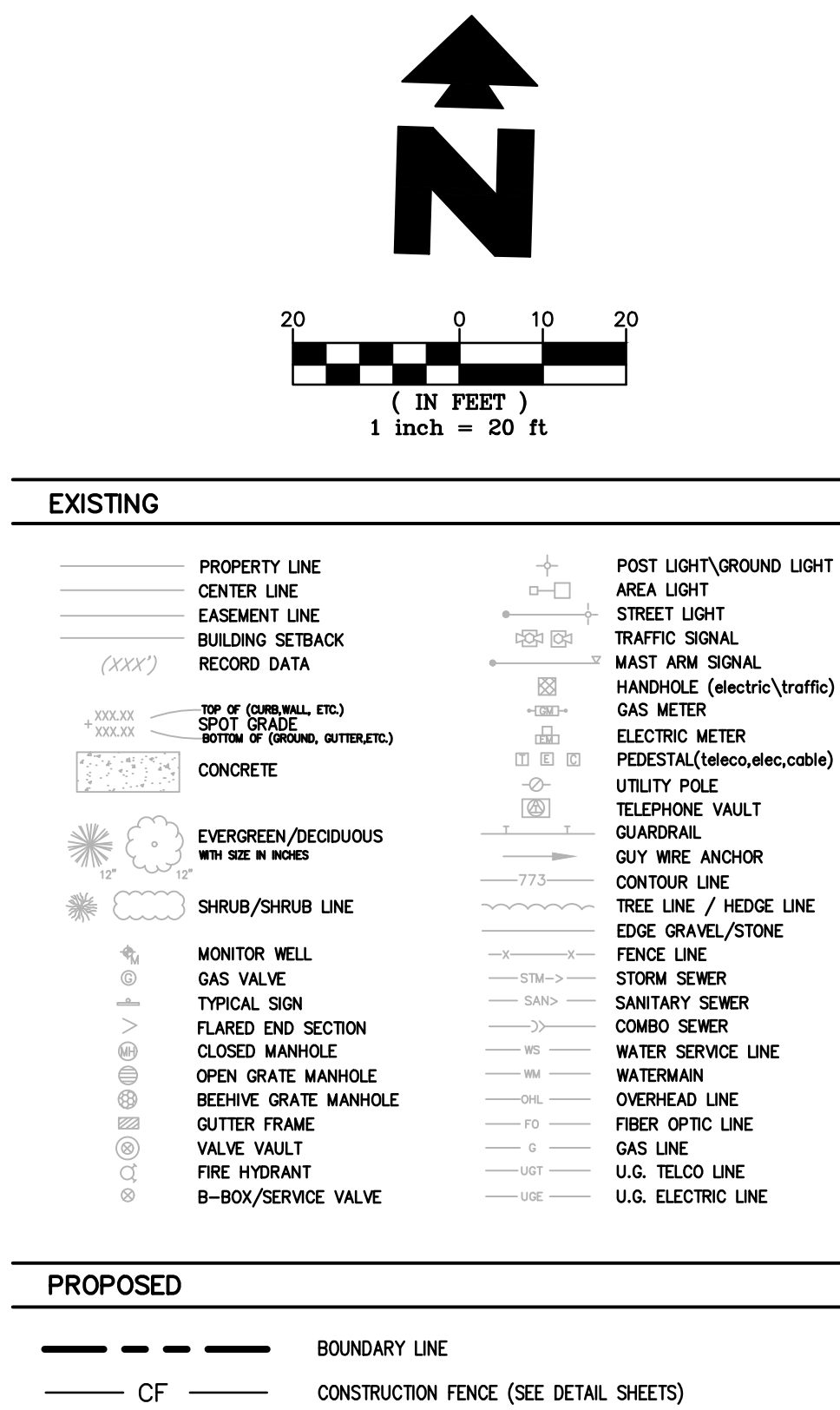
## VILLAGE OF ROMEIOVILLE EROSION CONTROL CERTIFICATE

"THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA."

JOHN JOURZAD

DATE






A. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.

B. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

C. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.

D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

---

 **DEMOLITION NOTES**

18A EXISTING TO BE REMOVED  
18B EXISTING TO BE RELOCATED  
19A EXISTING TO REMAIN  
51B LIMITS OF SAWCUT AND PAVEMENT REMOVAL

MURPHY OIL USA, INC.

MURPHY  
USA★

200 PEACH STREET  
EL DORADO, AR 71730

# GreenbergFarrow

1430 W. PEACHTREE ST. NW SUITE 200  
ATLANTA, GA 30309  
PHONE: (404) 601 4000  
FAX: (404) 601 3970  
DWG NAME: ROMEIOVILLE (WEBER), IL  
JOB NO.: 20160930

NAME: ROMEVILLE (WEBER), IL  
JOB NO.: 20160930

2	05-26-17	JN	JV	KH
	DATE	PRN	PM	DES

# DEMOLITION PLAN

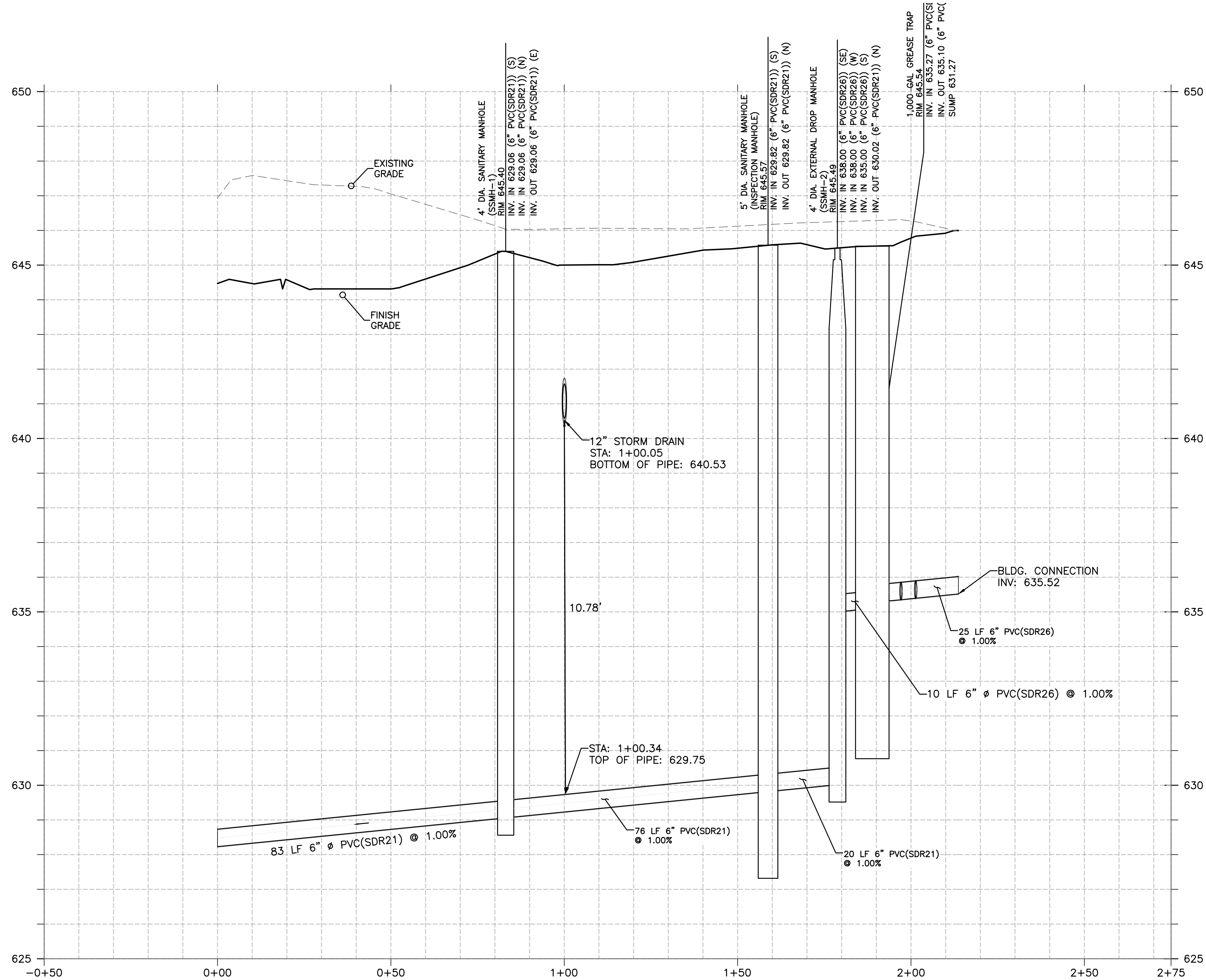
ILLINOIS  
ROMEOVILLE

SHEET NO.

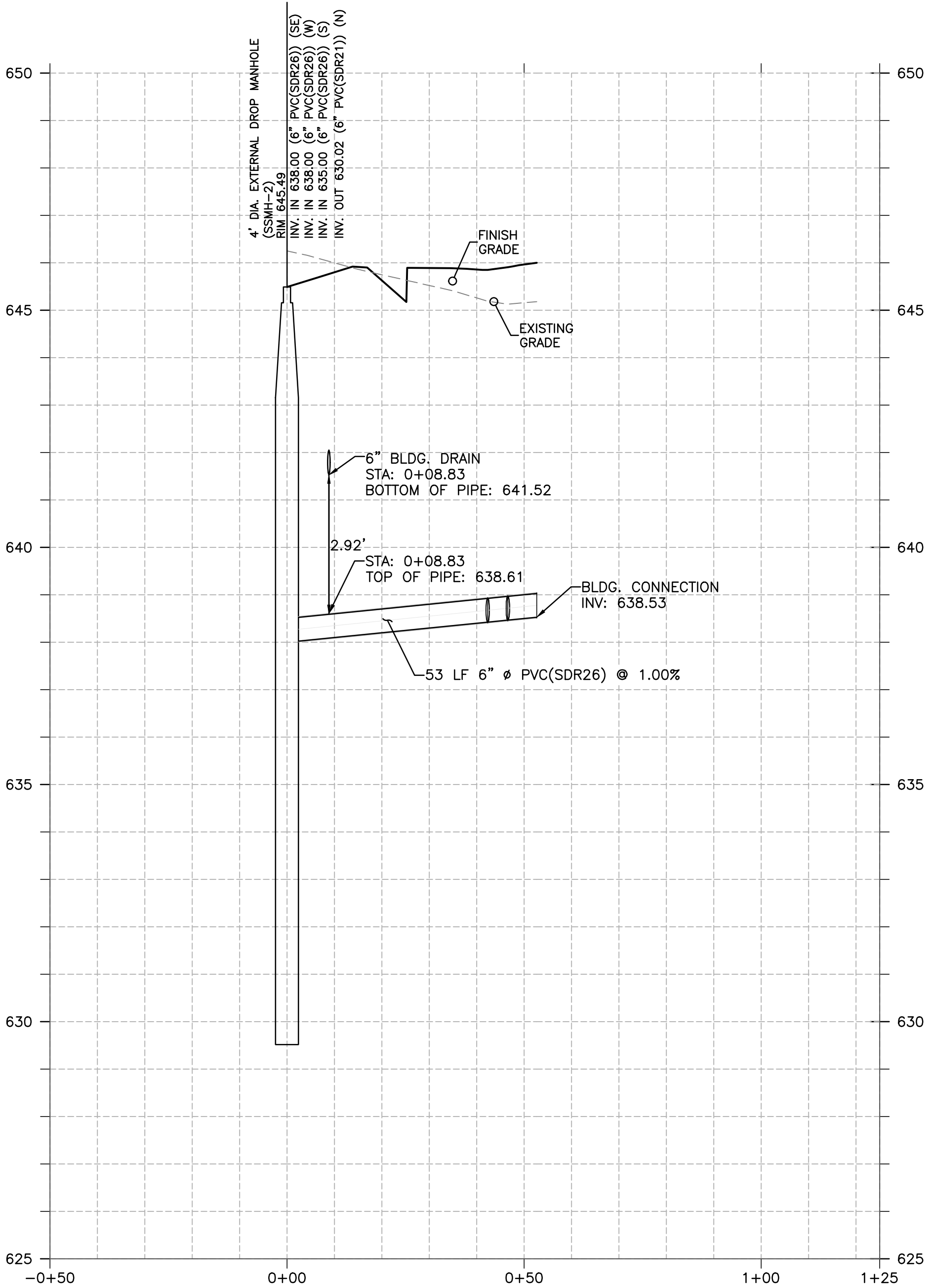






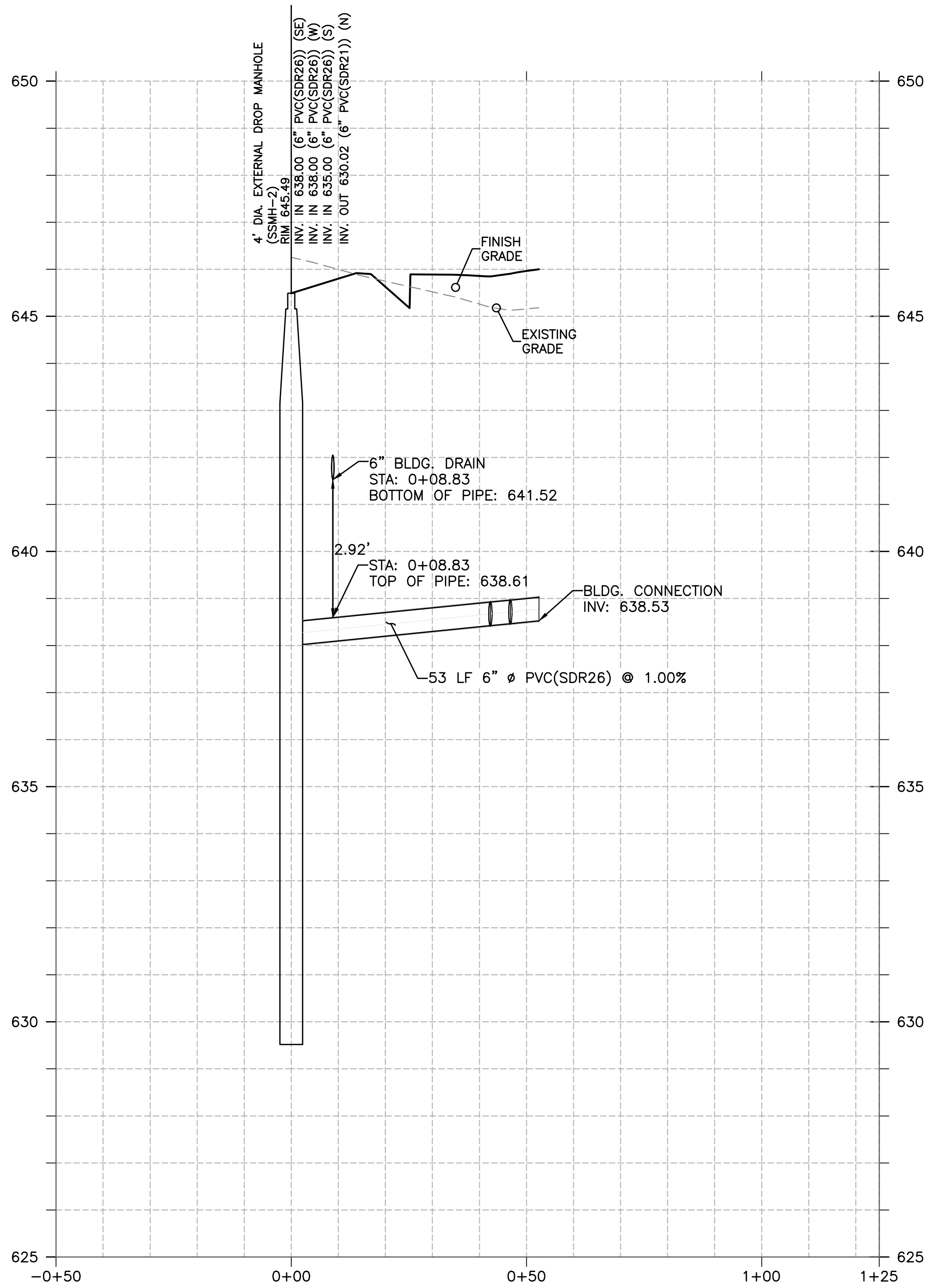


SEWER (FROM EX SUTB-OUT TO E BLDG)  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'

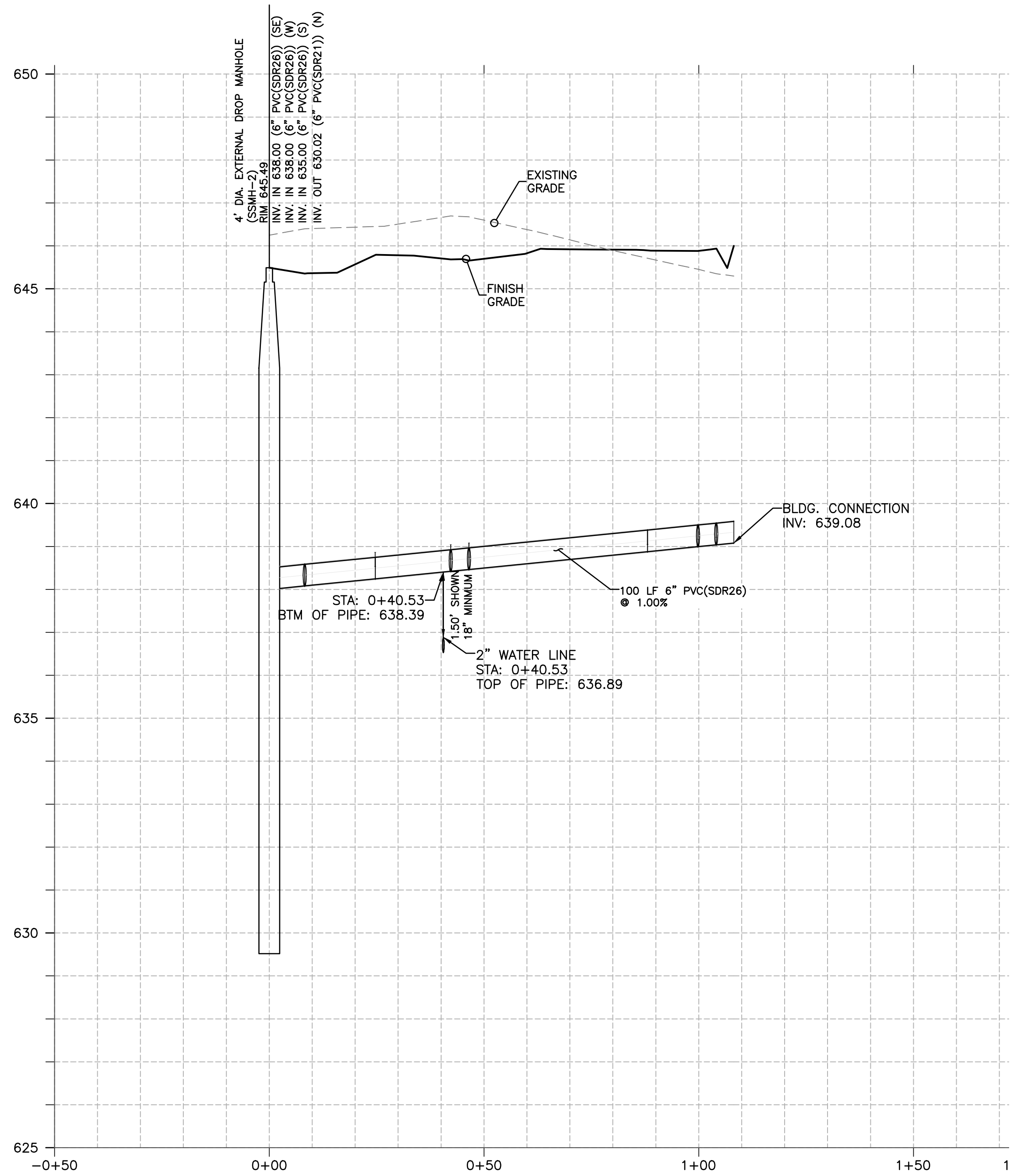


SEWER (FROM SSMH-2 TO N BLDG)  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'





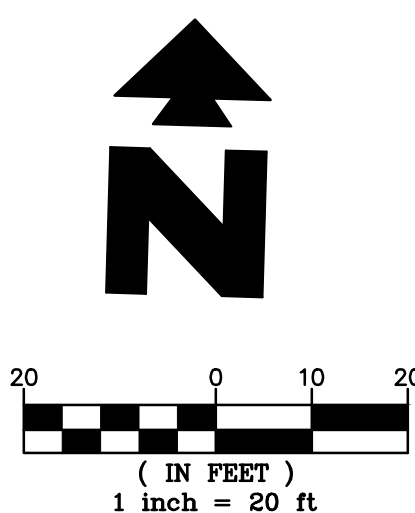
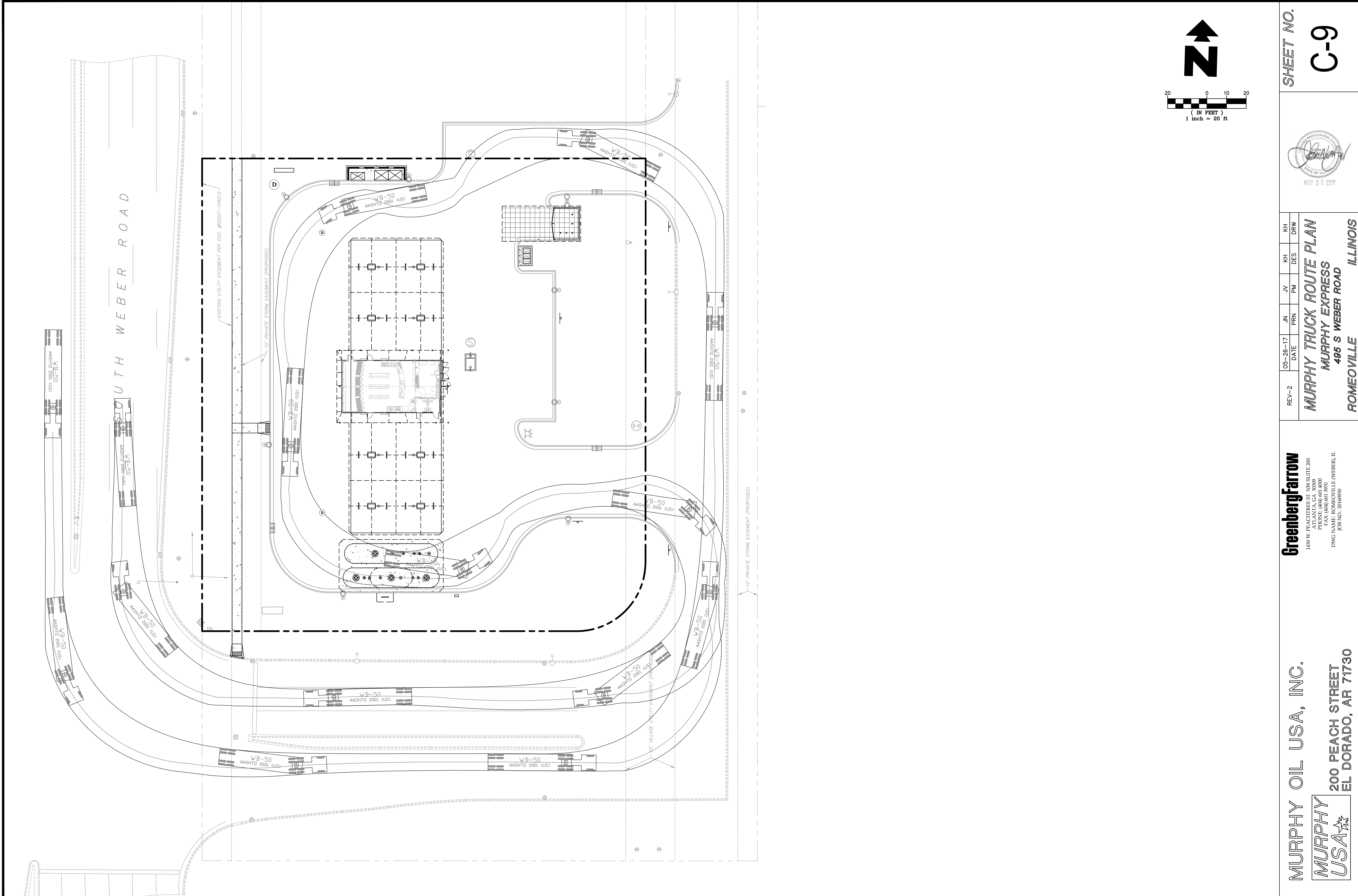
SEWER (FROM SSMH-2 TO N BLDG)  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'



SEWER (FROM SSMH-2 TO S BLDG)  
VERTICAL SCALE: 1"=2'  
HORIZONTAL SCALE: 1"=20'







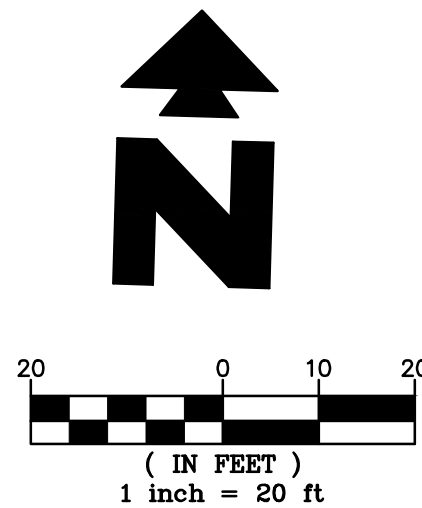
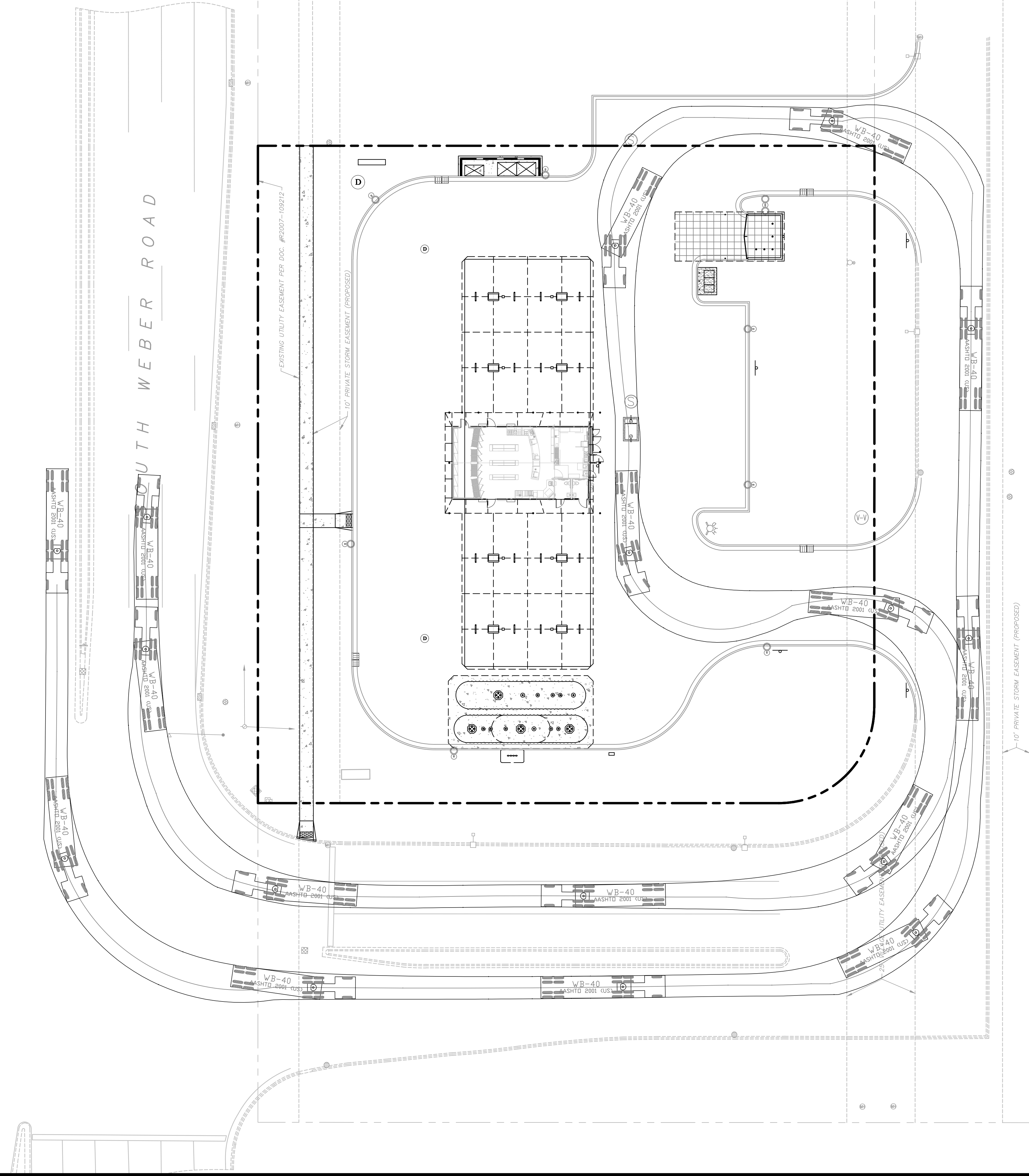
MURPHY OIL USA, INC.  
MURPHY USA

200 PEACH STREET  
EL DORADO, AR 71730

**GreenbergFarrow**  
1430 W. PEACHTREE ST. NW SUITE 200  
ATLANTA, GA 30389  
TEL: (404) 524-4400  
FAX: (404) 524-3970  
JOB NO.: 20160930

REV-2  
05-26-17  
DATE  
JN PRN  
JV PM  
KH DES  
KH DRW  
MURPHY TRUCK ROUTE PLAN  
MURPHY EXPRESS  
495 S WEBER ROAD  
ROMEIOVILLE ILLINOIS

SHEET NO.  
C-9  
Professional Engineer  
STATE OF ILLINOIS  
MAY 2 9 2017



MURPHY OIL USA, INC.

MURPHY  
USA★

200 PEACH STREET  
EL DORADO, AR 71730

# GreenbergFarrow

1430 W. PEACHTREE ST. NW SUITE 200  
ATLANTA, GA 30309  
PHONE: (404) 601 4000  
FAX: (404) 601 3970  
DWG NAME: ROMEIOVILLE (WEBER). IL  
JOB NO.: 20160930

DWG NAME: ROMEVILLE (WEBER), IL  
JOB NO.: 20160930

REV--2	05--26-17	JN	JV	KH	KH
	DATE	PRN	PM	DES	DRW

**FIRE TRUCK ROUTE PLAN**

**MURPHY EXPRESS**

**495 S WEBER ROAD**

**ROMEONVILLE**

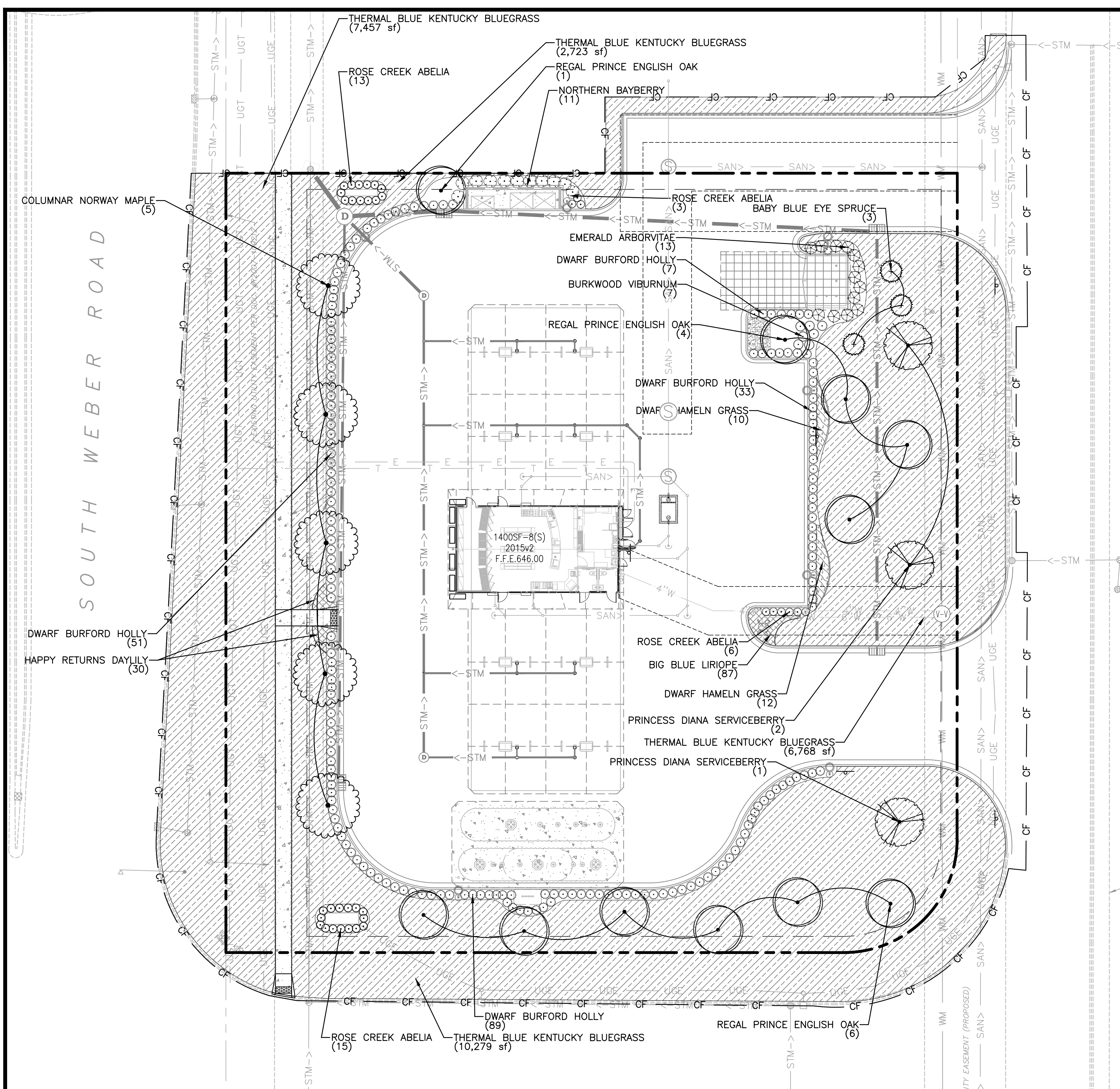
**ILLINOIS**

SHEET NO.

# 09.1



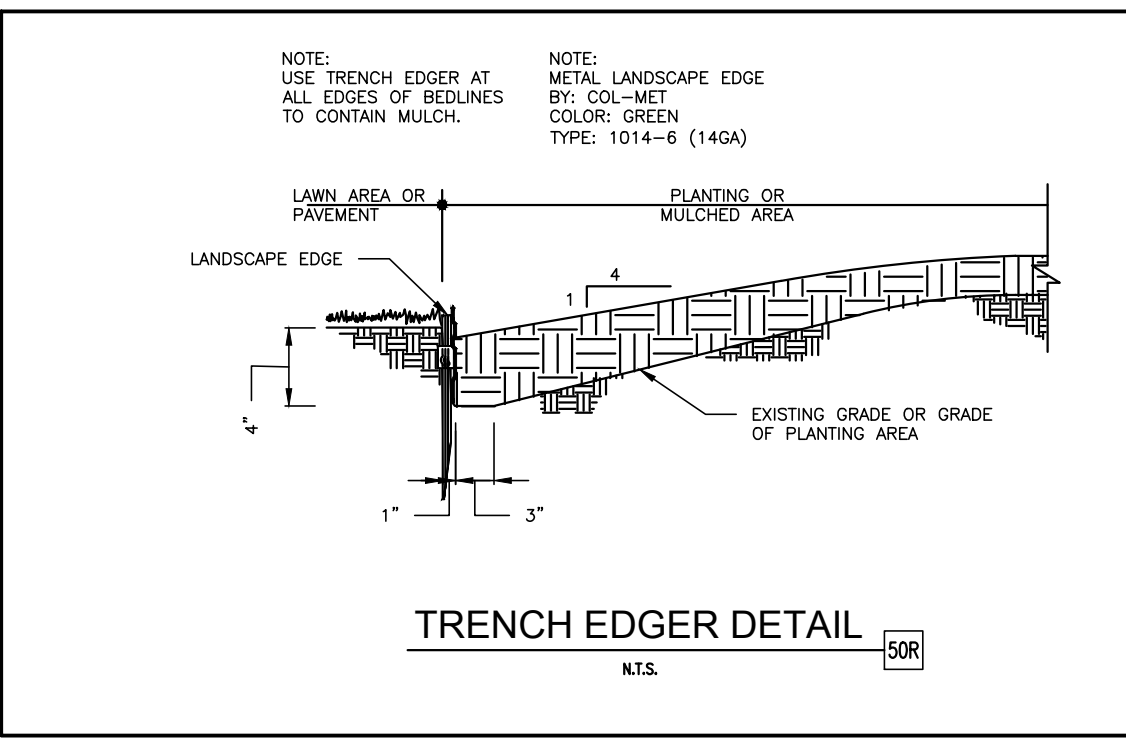
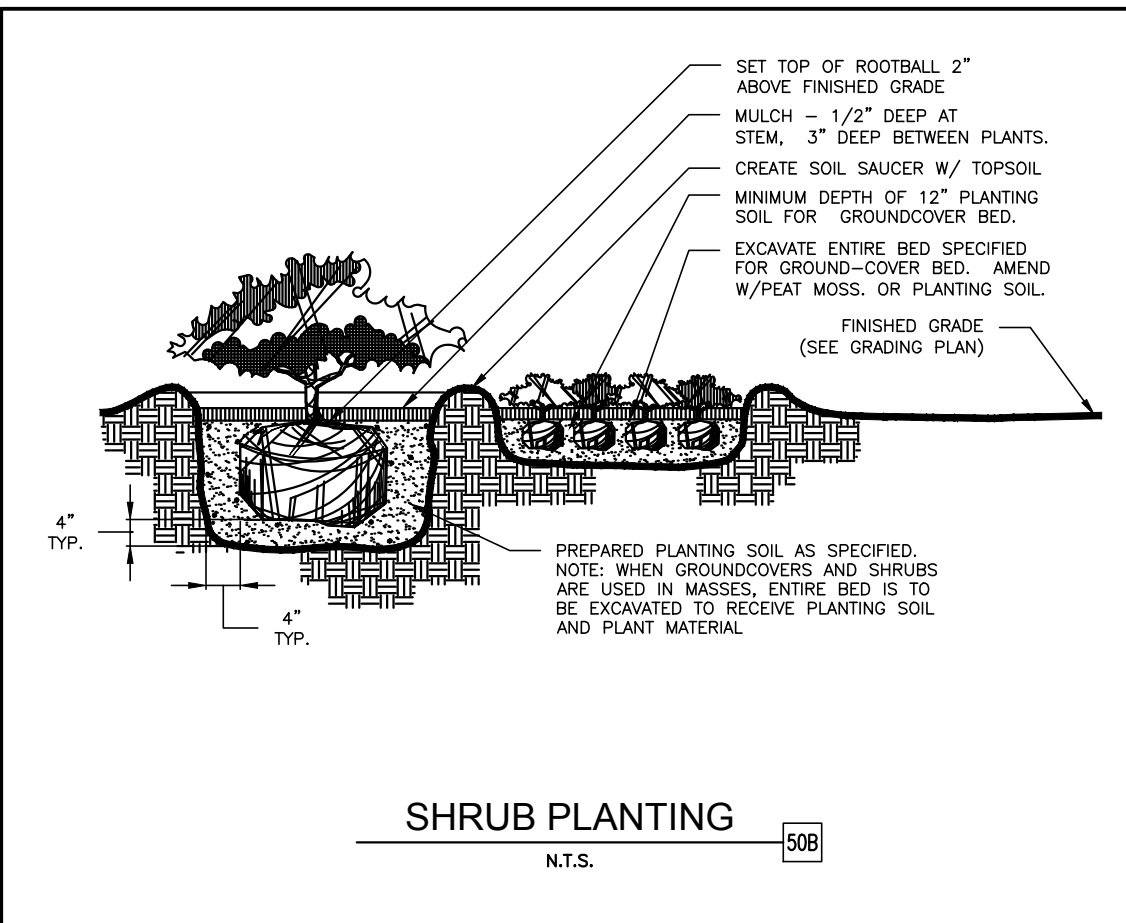
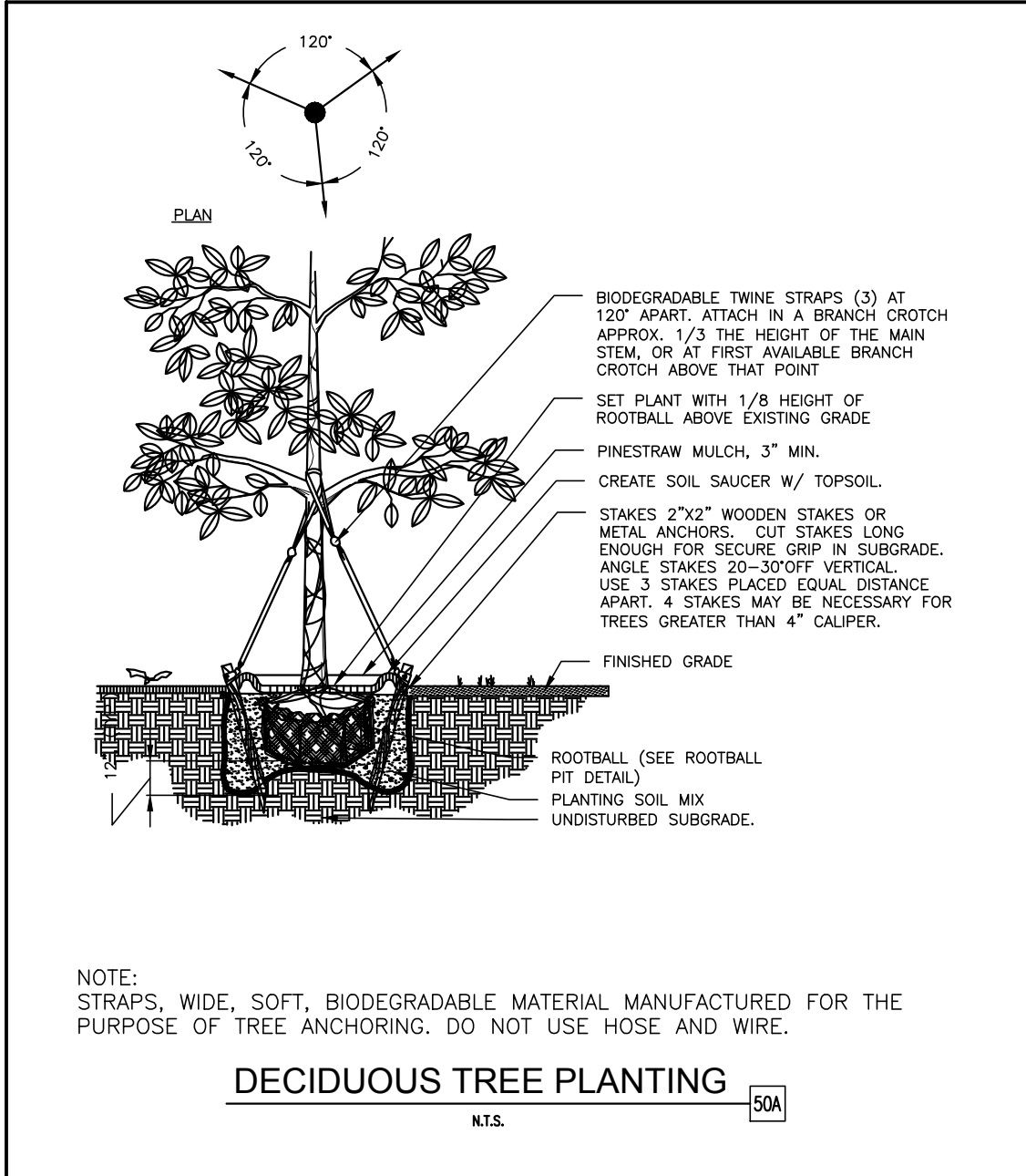




PLANT SCHEDULE LANDSCAPE

TREES	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	REMARKS
	5	Acer platanoides 'Columnare' / Columnar Norway Maple	B & B	2.5"Cal	10'-12' HT	Full, Well Rooted
	3	Amelanchier x grandiflora 'Princess Diana' / Princess Diana Serviceberry	B & B	2.5"Cal	8' H x 10' W	Multi-Trunk, Full Canopy
	3	Picea pungens glauca 'Baby Blue Eyes' TM / Baby Blue Eye Spruce	B & B		8' HT MIN.	Full to Ground, Straight Trunk
	11	Quercus robur 'Regal Prince' / Regal Prince English Oak	B & B	3"Cal	10'-12'H X 5'-6"W	Full well Rooted, Straight Trunk
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE	HEIGHT	PTS. FA.	REMARKS
	37	Abelia x grandiflora 'Rose Creek' / Rose Creek Abelia	3 gal	24" MIN.		Full, Well Rooted in Pot
	180	Ilex cornuta 'Burfordii Nana' / Dwarf Burford Holly	3 gal	36" MIN.		Full, Dense, Bushy
	11	Myrica pensylvanica / Northern Bayberry	7 gal	5' HT		
	13	Thuja occidentalis 'Emerald' / Emerald Arborvitae	15 gal	8' MIN.		Full to Ground, Dense, Bushy
	7	Viburnum x 'Burkwoodii' / Burkwood Viburnum	7 gal	36" MIN.		Full, Well Branched, Dense

GROUND COVERS	QTY	BOTANICAL NAME / COMMON NAME	CONT	REMARKS
	30	Hemerocallis x 'Happy Returns' / Happy Returns Daylily	1 gal	Full, Well Rooted in Pot
	87	Liriope muscari 'Big Blue' / Big Blue Liriope	4"pot	Full, Well Rooted in Pot
	22	Pennisetum alopecuroides 'Hameln' / Dwarf Hameln Grass	1 gal	Full, Dense, Well Rooted
	53,614 sf	Thermal Blue Hybrid Blend / Thermal Blue Kentucky Bluegrass	sod	Certified Weed Free



EXISTING	PROPOSED

- GENERAL LANDSCAPE NOTES
- LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE LANDSCAPE CONSTRUCTION BEGINS.
  - NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
  - ALL LANDSCAPE MATERIALS SHALL BE IN COMPLIANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK. (ANSI-Z60.1-1986)
  - ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED SHALL BE RE-SEDED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - THE MURPHY STATION WILL NOT DROP MASTER DEVELOPMENT'S GREEN SPACE BELOW CITY'S REQUIREMENTS.
  - CONTRACTOR IS TO VERIFY LOCATION OF MASTER DEVELOPMENT IRRIGATION SYSTEM, VALVE BOXES, CONTROL BOXES, BACKFLOW PREVENTION DEVICES AND OTHER ITEMS WHICH ARE PART OF THE SYSTEM. IF DAMAGED THEY MUST BE REPAIRED AT CONTRACTOR'S COST.
  - CONTRACTOR IS TO PROTECT EXISTING LANDSCAPING/IRRIGATION MATERIALS.
  - ACCEPTANCE OF GRADING AND SEEDING SHALL BE BY LANDSCAPE ARCHITECT AND/OR OWNER. THE CONTRACTOR SHALL ASSUME MAINTENANCE RESPONSIBILITIES FOR A MINIMUM OF ONE (1) YEAR OR UNTIL SECOND CUTTING, WHICHEVER IS LONGER. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, RESEEDING, AND OTHER OPERATIONS NECESSARY TO KEEP ALL LAWN AREAS IN A THRIVING CONDITIONS. UPON FINAL ACCEPTANCE, OWNER SHALL ASSUME ALL MAINTENANCE RESPONSIBILITIES. AFTER LAWN AREA HAVE GERMINATED, AREAS WHICH FAIL TO SHOW A UNIFORM STAND OF GRASS FOR ANY REASON WHATSOEVER SHALL BE RE-SEDED REPEATEDLY UNTIL ALL AREAS ARE COVERED WITH A SATISFACTORY STAND OF GRASS. MINIMUM ACCEPTANCE OF SEEDED LAWN AREAS MAY INCLUDE SCATTERED BARE SPOTS, NONE OF WHICH ARE LARGER THAN 1 SQUARE FOOT, AND WHEN COMBINED DO NOT EXCEED 2% OF TOTAL SEEDED LAWN AREA.
  - THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THESE PLANS, BEFORE PRICING THE WORK.
  - QUANTITIES ON THE PLANT SCHEDULE ARE PROVIDED FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER OWN QUANTITY CALCULATIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE LANDSCAPE PLANS AND THE PLANT SCHEDULE, THE LANDSCAPE PLAN WILL TAKE PRECEDENCE. THE CONTRACTOR SHALL INFORM THE LANDSCAPE ARCHITECT IMMEDIATELY UPON DISCOVERING ANY QUANTITY DISCREPANCIES.
  - METAL LANDSCAPE EDGING IS TO BE INSTALLED BETWEEN SOD AND LANDSCAPE PLANTING BEDS.

SHEET NO.  
**C-10**

LANDSCAPE PLAN  
MURPHY EXPRESS  
495 S WEBER ROAD  
ROMEIOVILLE ILLINOIS

GreenbergFarrow

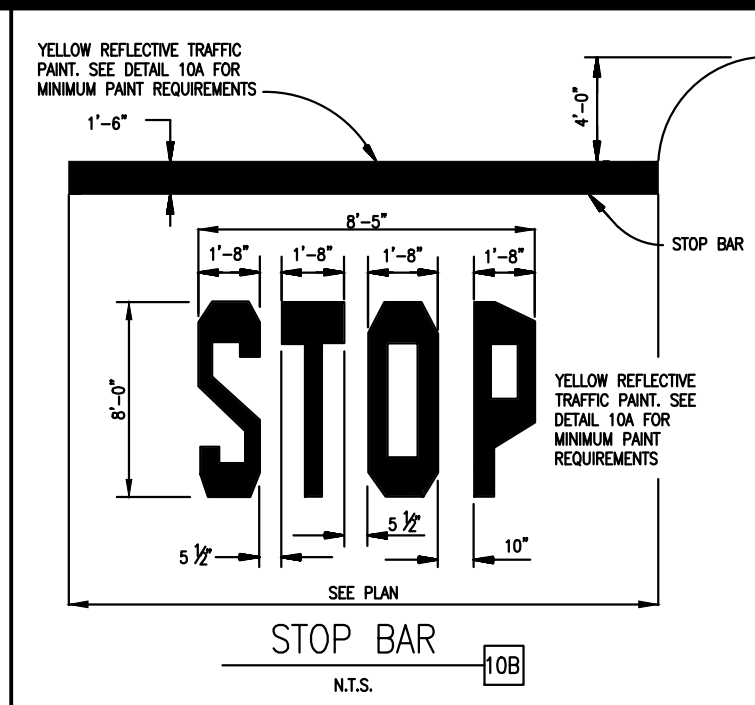
1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30309  
TEL: (404) 401 9670  
FAX: (404) 401 9670  
DWG NAME: ROMEIOVILLE (WEBER), IL  
JOB NO.: 20160930

MURPHY OIL USA, INC.

200 PEACH STREET  
EL DORADO, AR 71730

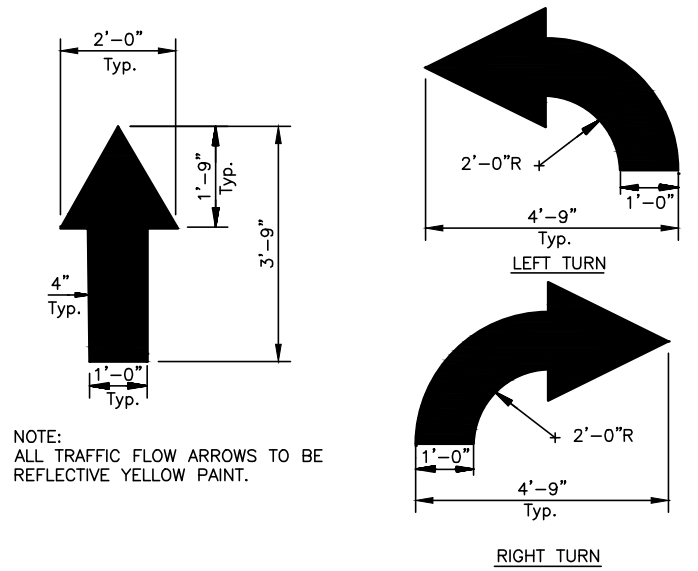
MURPHY  
USA



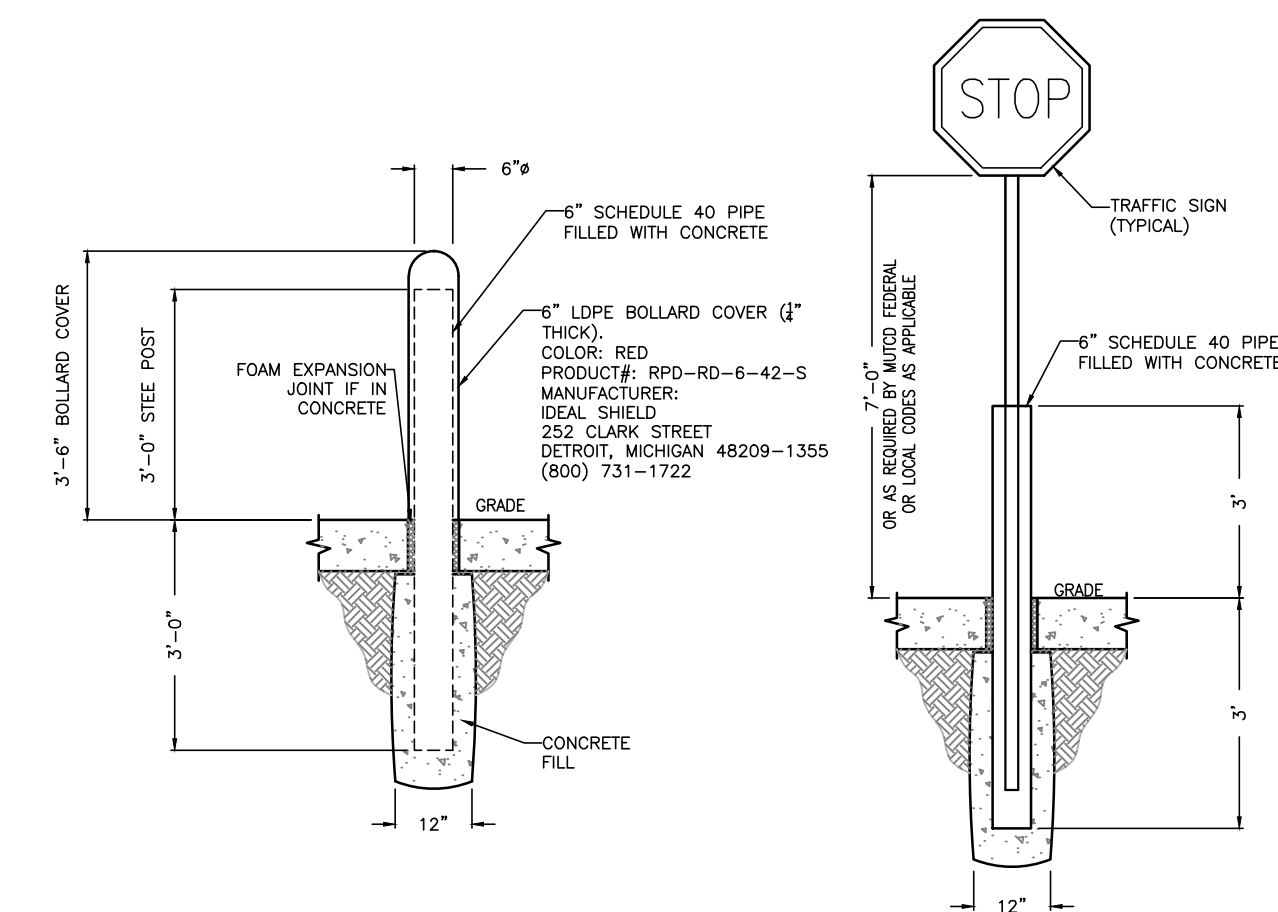


- NOTES:
1. LOCATE AT EDGE OF PARKING SPACE UNLESS ACCOMPANIED BY "VAN" LETTERING.
  2. SEE DETAIL 10A FOR MINIMUM PAINT REQUIREMENTS

ACCESSIBLE PARKING SYMBOL [9U]  
N.T.S.

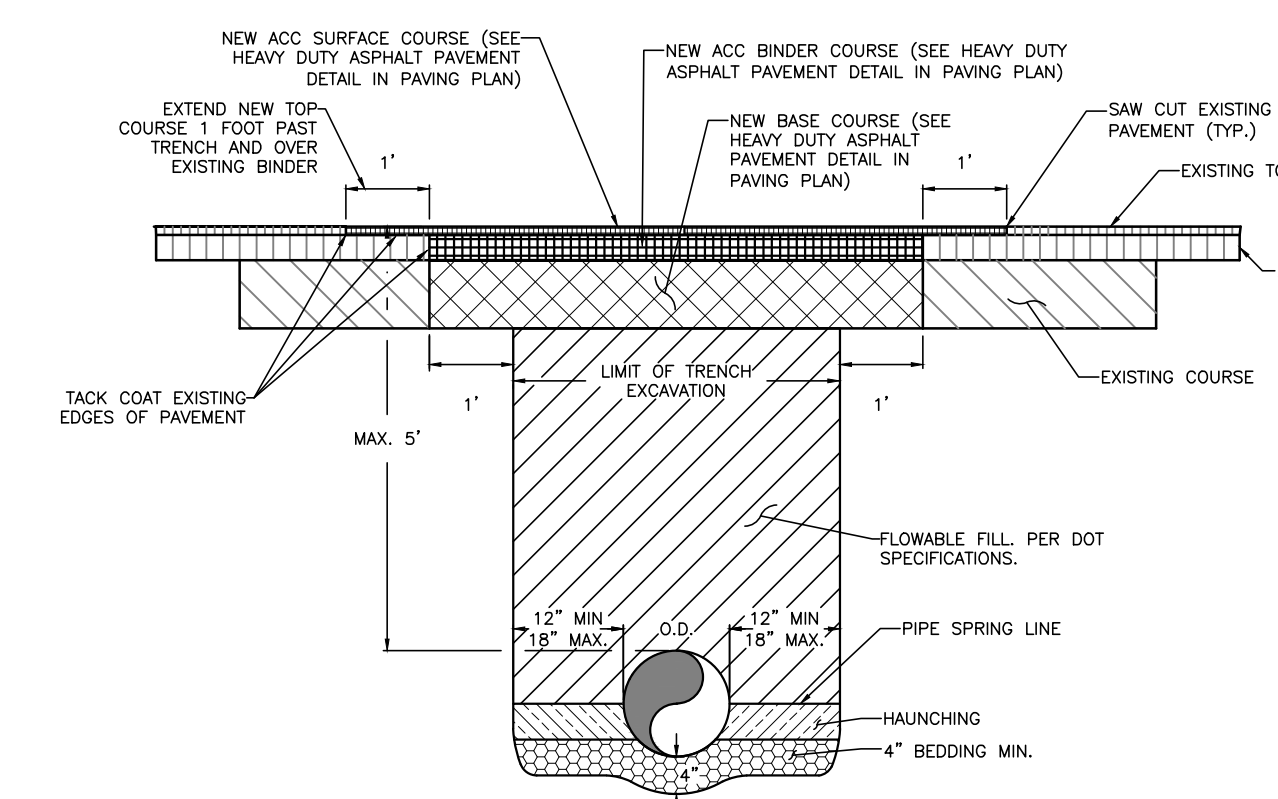


TRAFFIC FLOW ARROW [10A]  
N.T.S.



STEEL BOLLARD [5A]  
N.T.S.

TRAFFIC SIGN IN BOLLARD [5B]  
N.T.S.



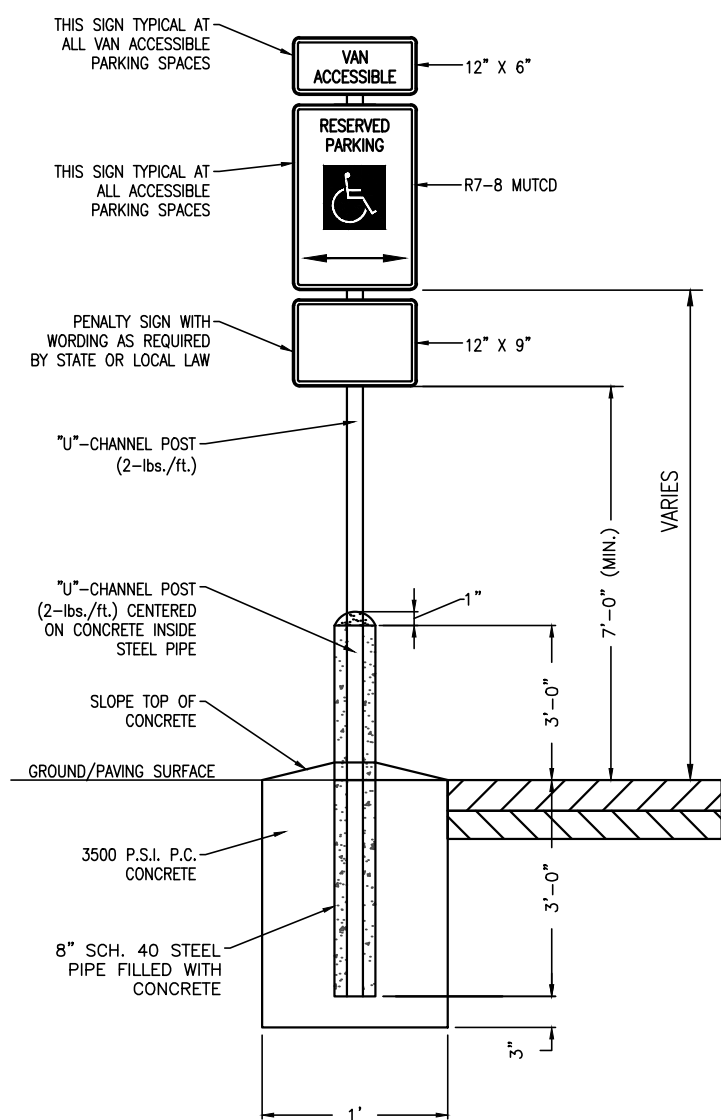
- NOTES:
1. REFER TO SPECIFIC PAVEMENT DETAILS AND SPECIFICATION FOR APPROPRIATE MATERIALS AND ADDITIONAL INFORMATION.
  2. BEDDING SHALL BE CLASS I-A WORKED BY HAND, IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR.
  3. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
  4. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
  5. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 6" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 695 CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
  6. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.

ASPHALT STREET OR DRIVE CUT/REPAIR FOR NEW PIPE INSTALLATIONS [29A]  
N.T.S.

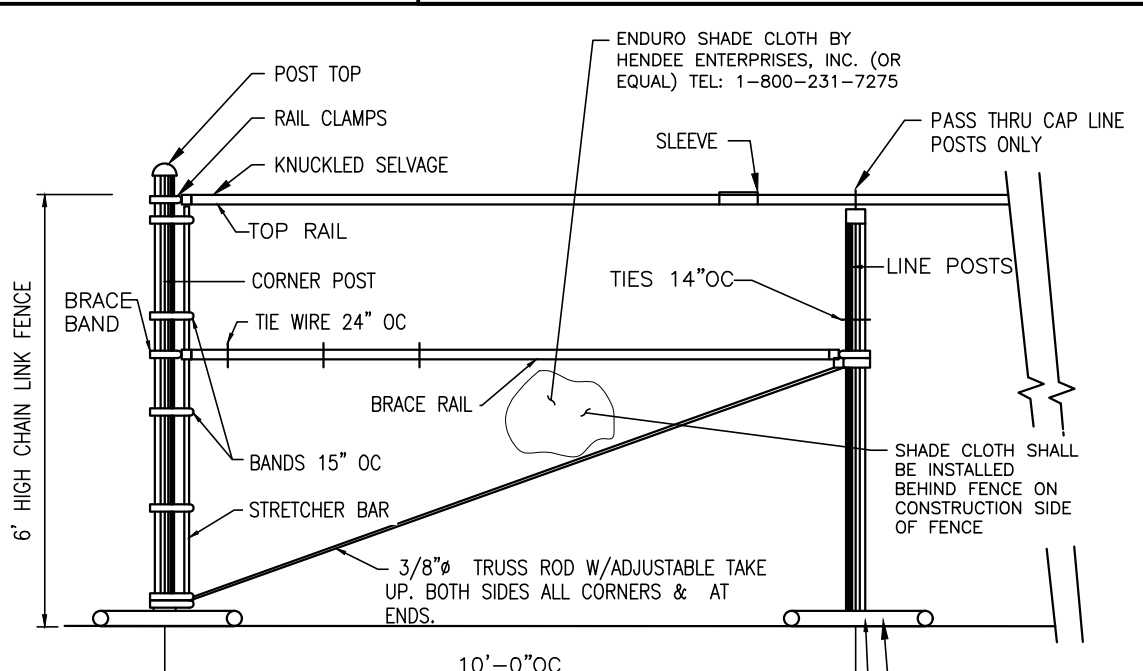


ACCESSIBLE PARKING SIGN WITH \$250 FINE SIGN MUTCO R7-5, 12"x18" IL STD. R7-101, 12"x18"

ACCESSIBLE PARKING SIGN

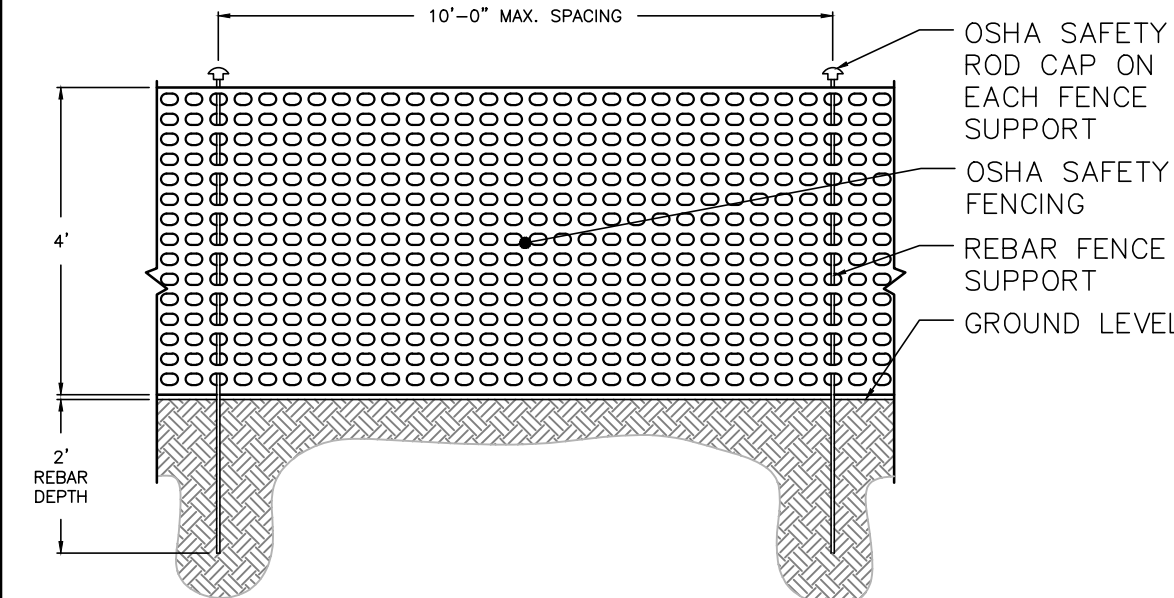


ACCESSIBLE PARKING SIGN [9S]  
N.T.S.

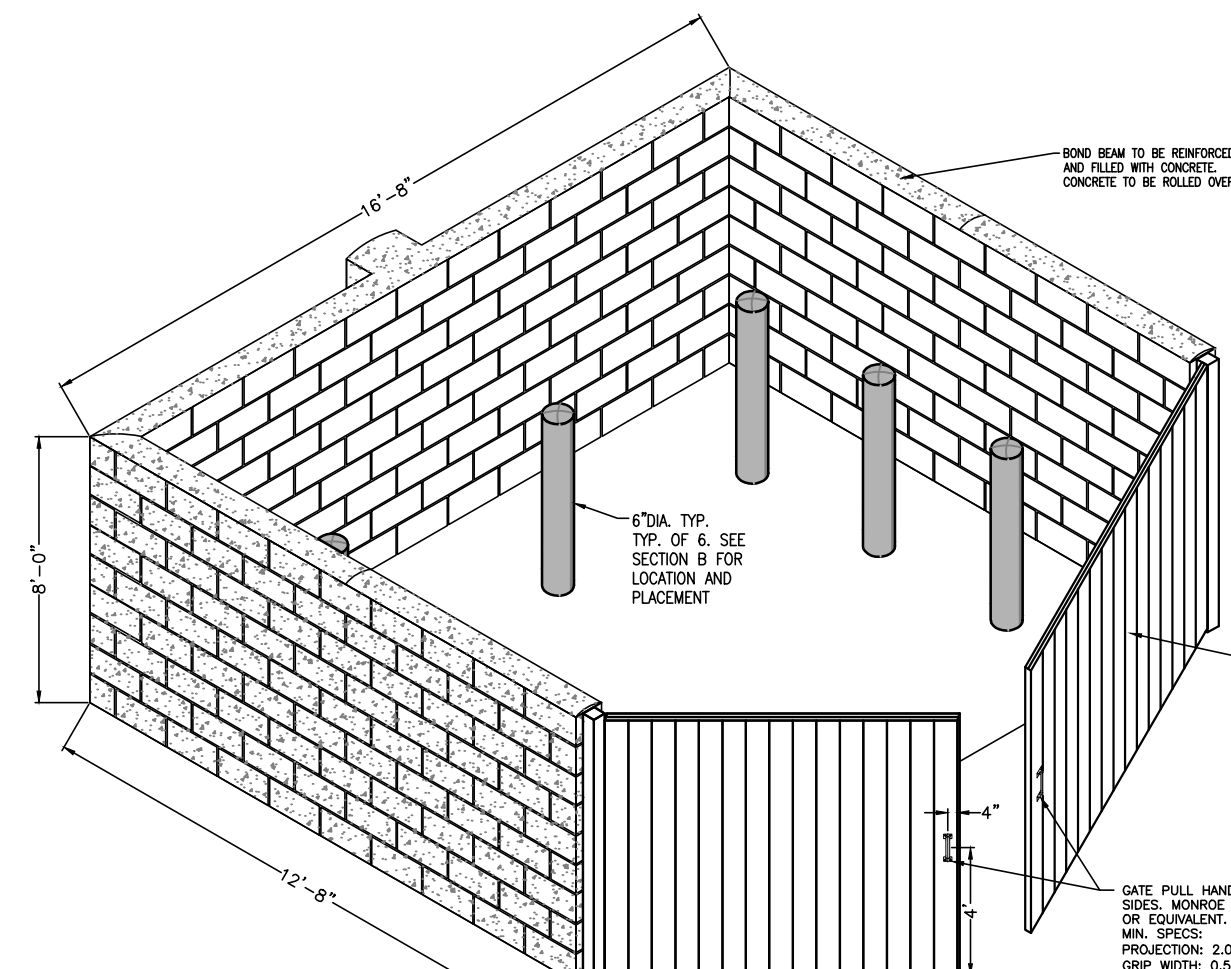


- NOTES:
1. STABILIZER BRACKETS TO BE FROM ACADEMY FENCE COMPANY OR APPROVED EQUAL.
  2. SANDBAGS MAY BE USED TO FURTHER STABILIZE BRACKETS

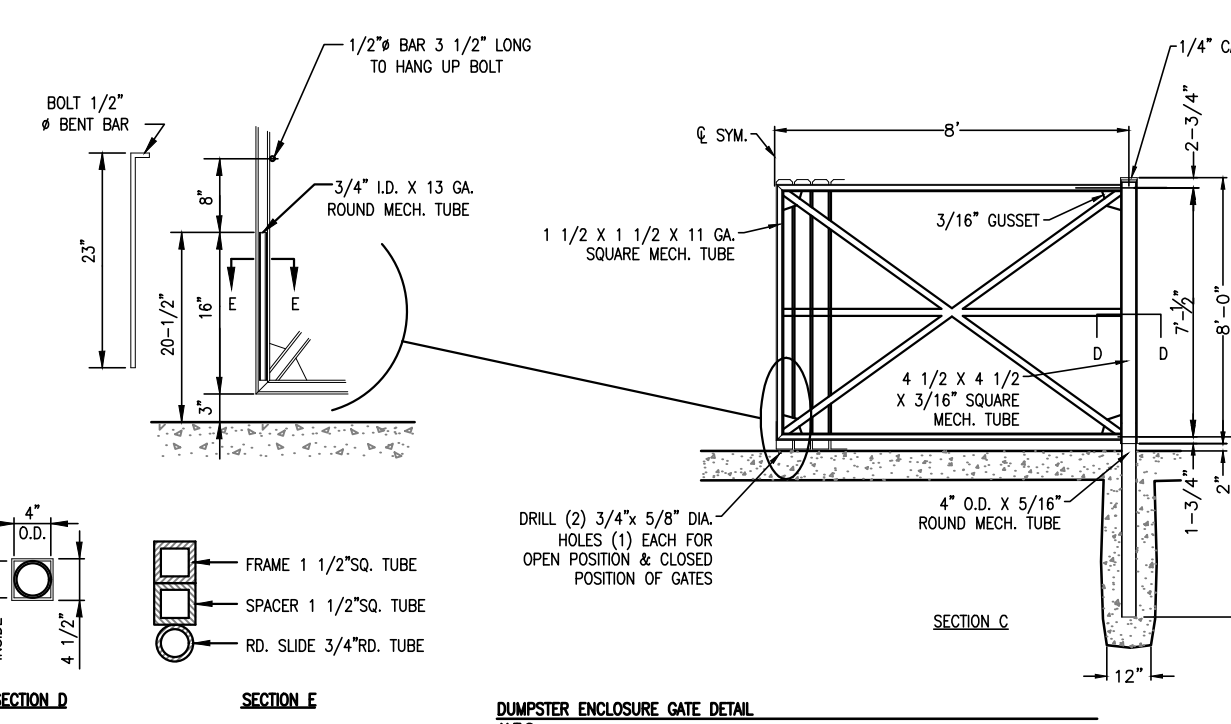
CONSTRUCTION SAFETY FENCE [2F]  
N.T.S.



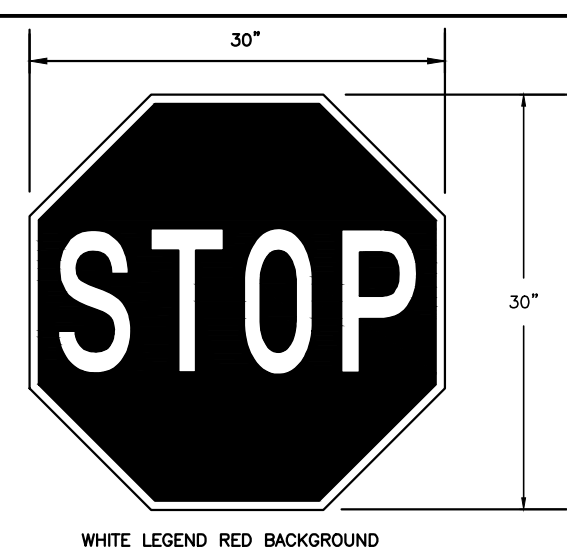
CONSTRUCTION SAFETY FENCE [2F]  
N.T.S.



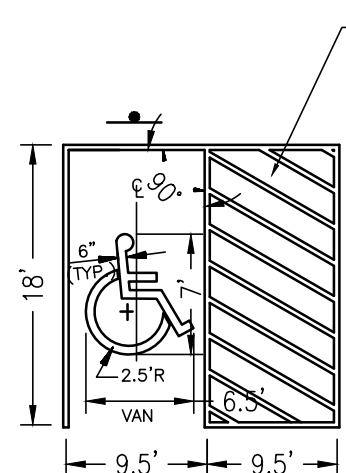
MASONRY BLOCK DUMPSTER ENCLOSURE



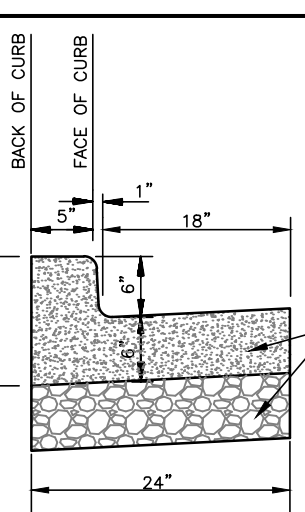
DUMPSTER ENCLOSURE [2E]  
N.T.S.



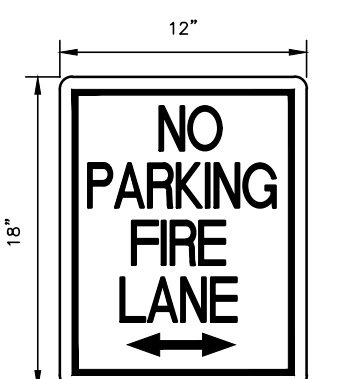
WHITE LEGEND RED BACKGROUND R1-1 "STOP" SIGN [12G]  
N.T.S.



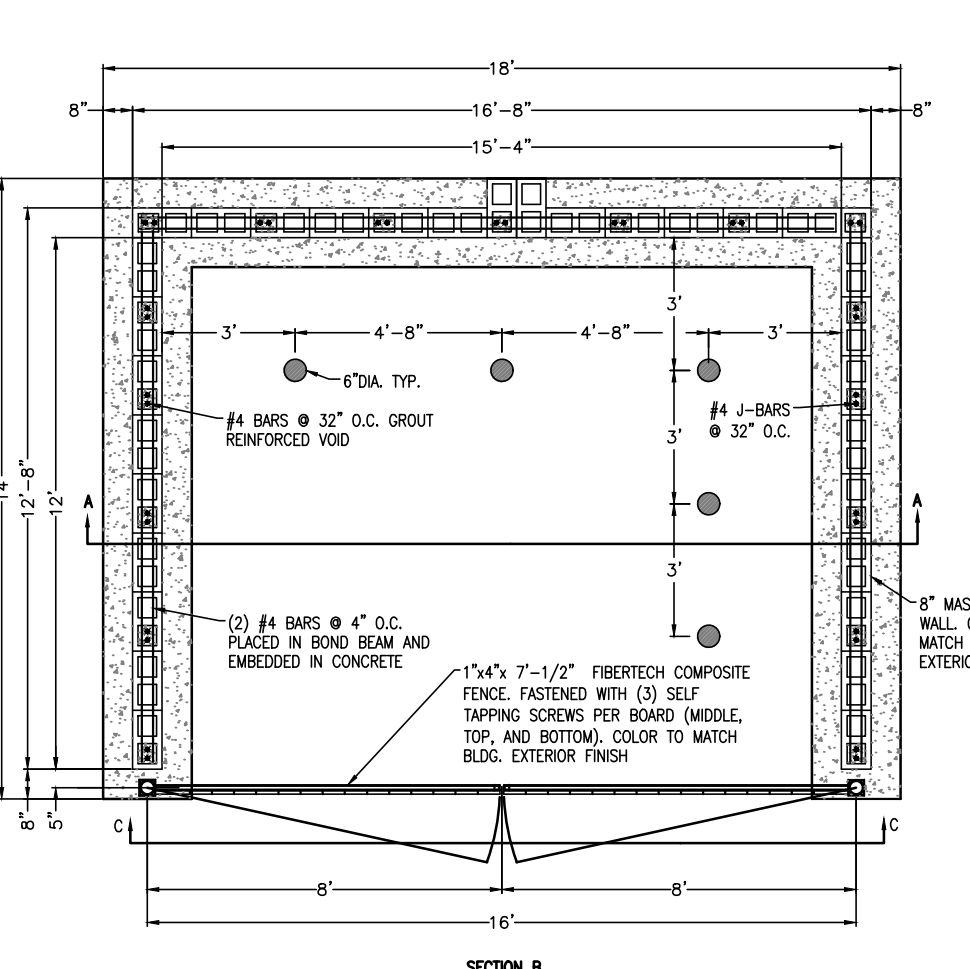
ACCESSIBLE PARKING STALL [9A]  
N.T.S.



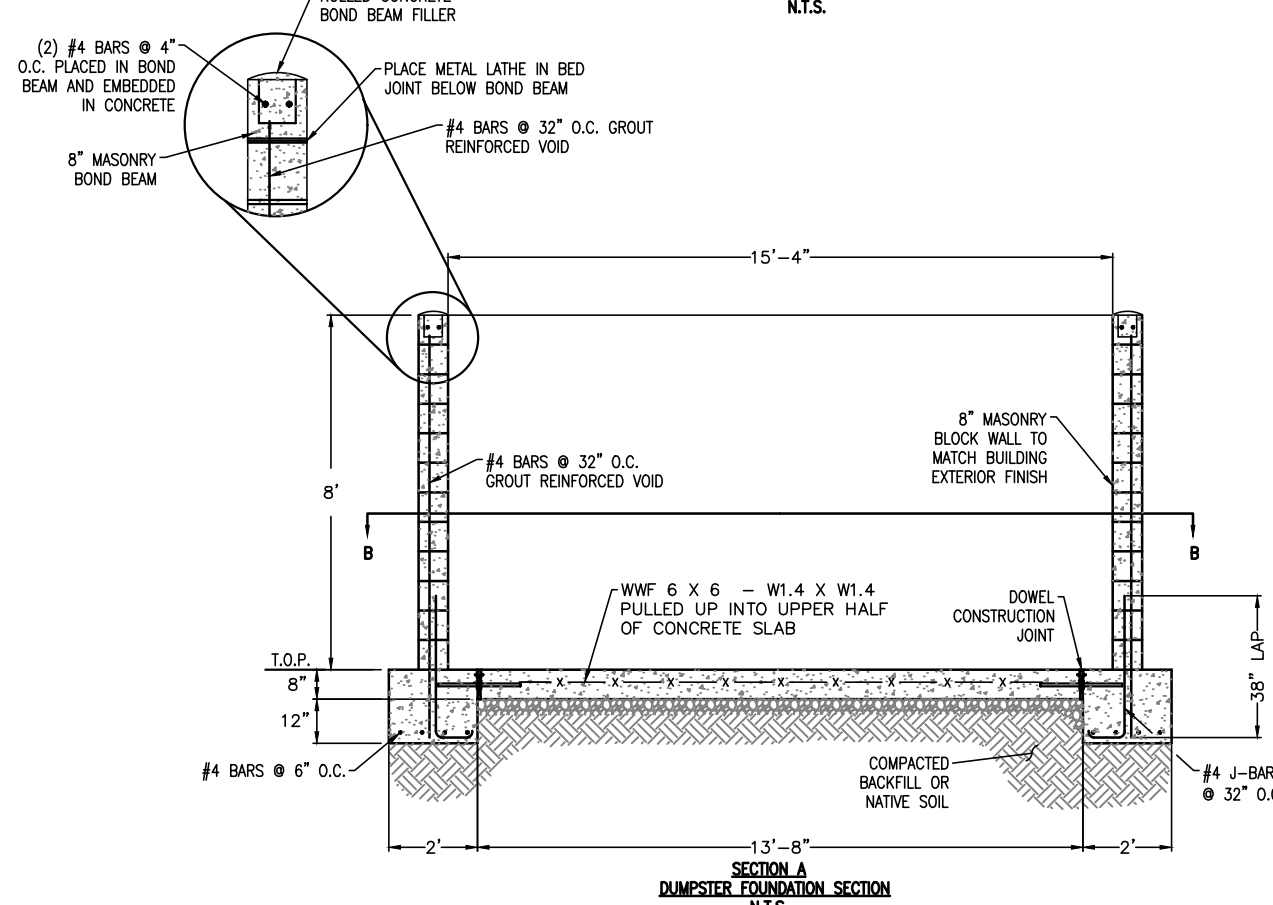
TYPE "B" CONCRETE CURB AND GUTTER [1B]  
N.T.S.



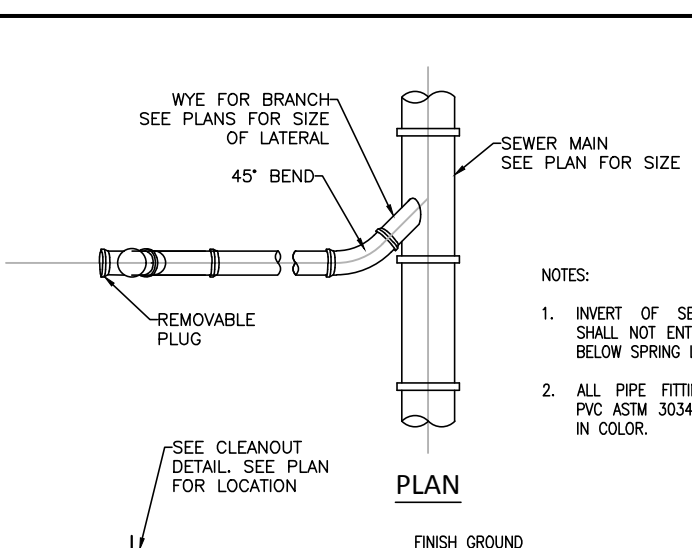
"NO PARKING FIRE LANE" SIGN [1K]  
N.T.S.



DUMPSTER FOUNDATION PLAN [2H]  
N.T.S.



DUMPSTER FOUNDATION SECTION [2H]  
N.T.S.



SANITARY SEWER WYE CONNECTION WITH CLEAN-OUT [10B]  
N.T.S.

SHEET NO.

C-13



REV-2 05-26-17 DATE PRN JN JV PM DES KH DRW

GreenbergFarrow

MURPHY OIL USA, INC.

200 PEACH STREET  
EL DORADO, AR 71730

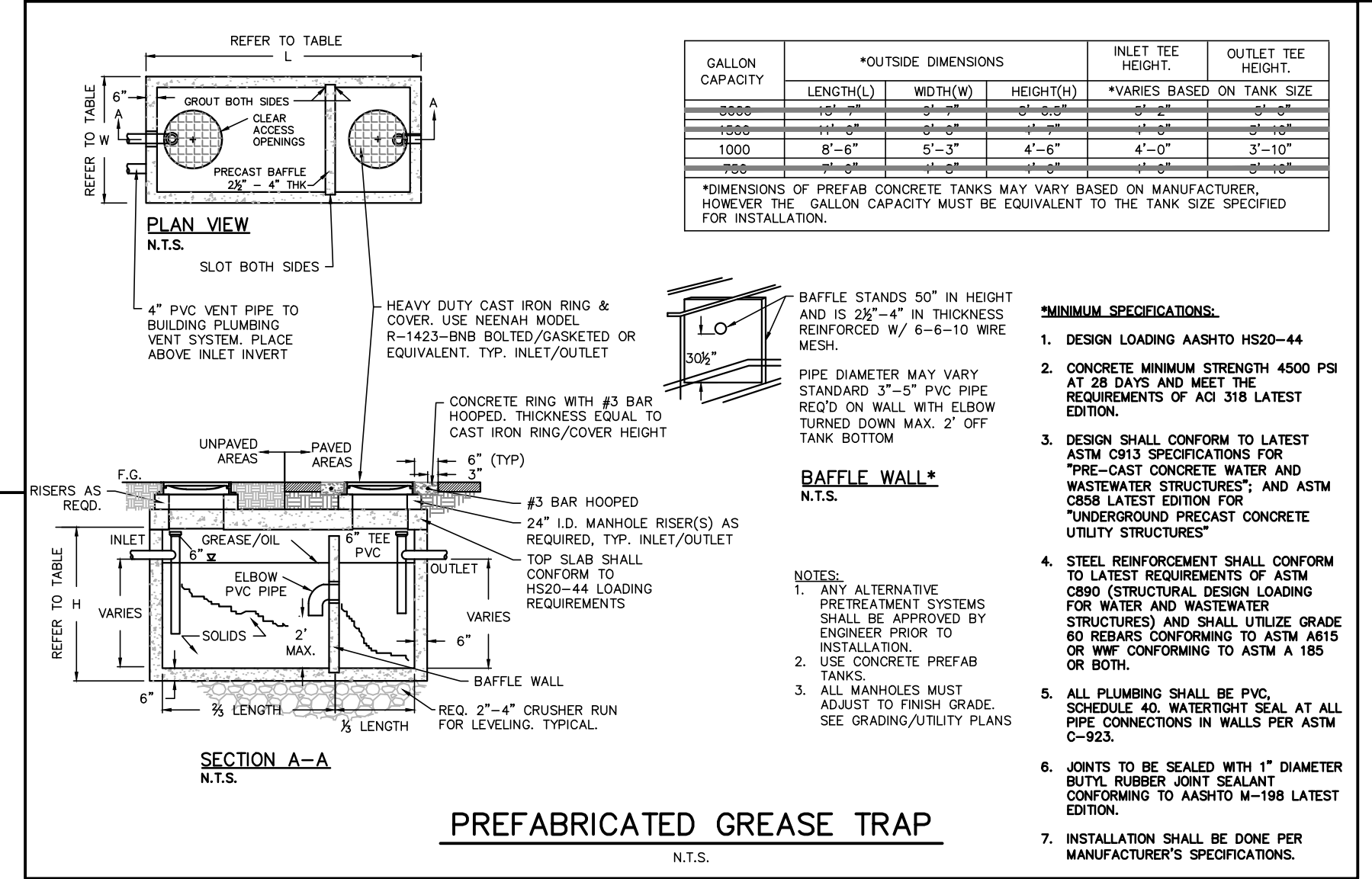
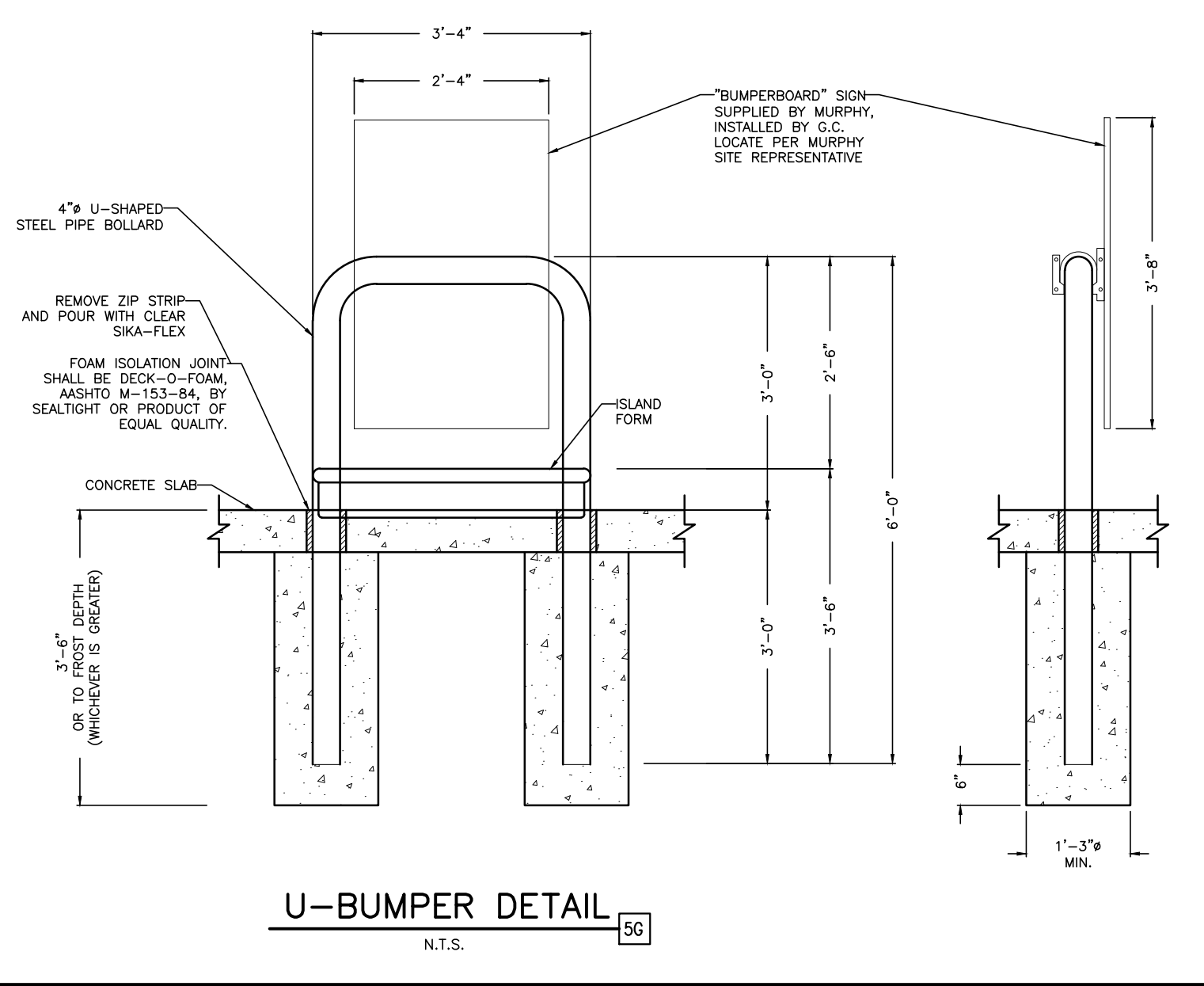
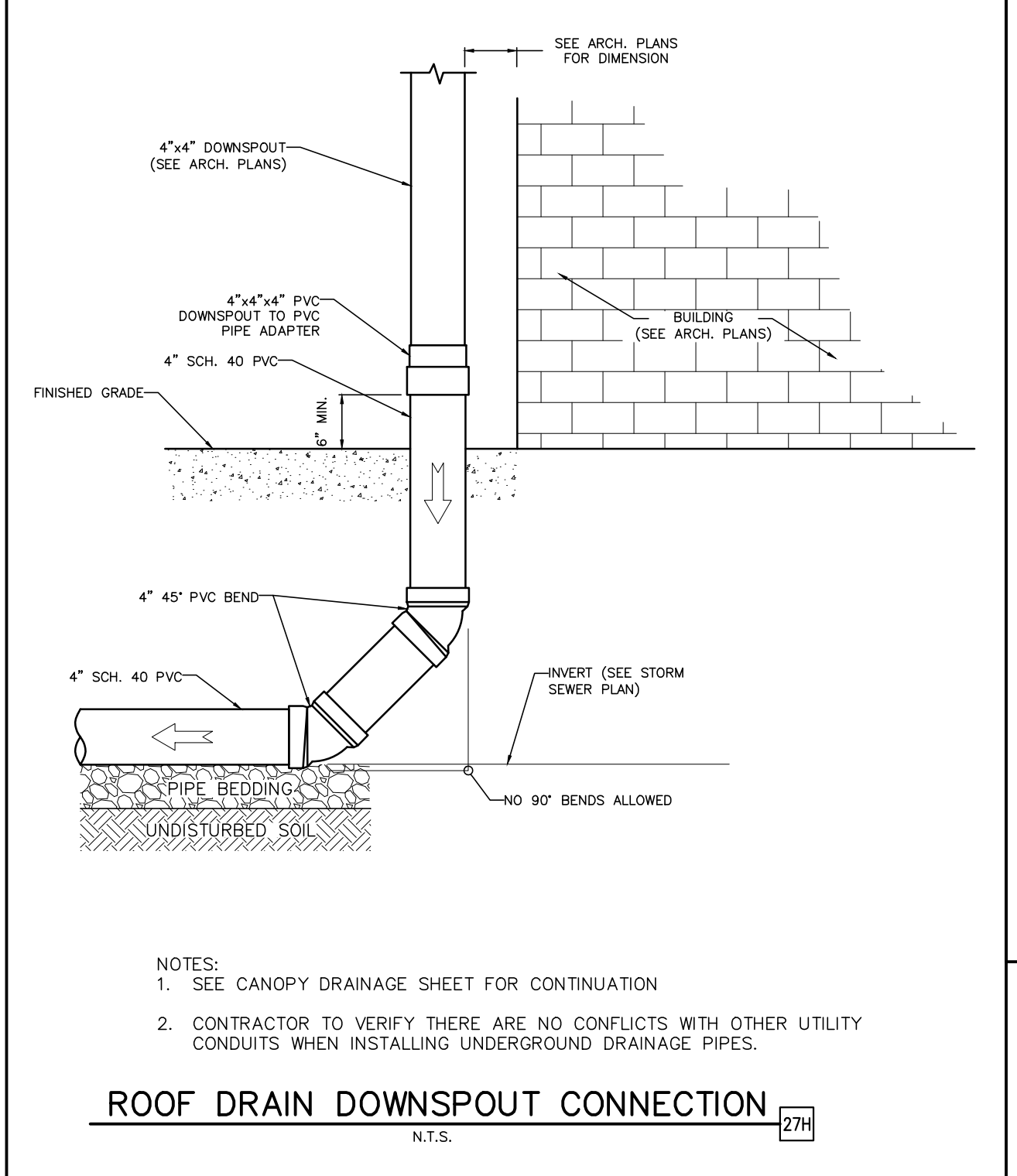
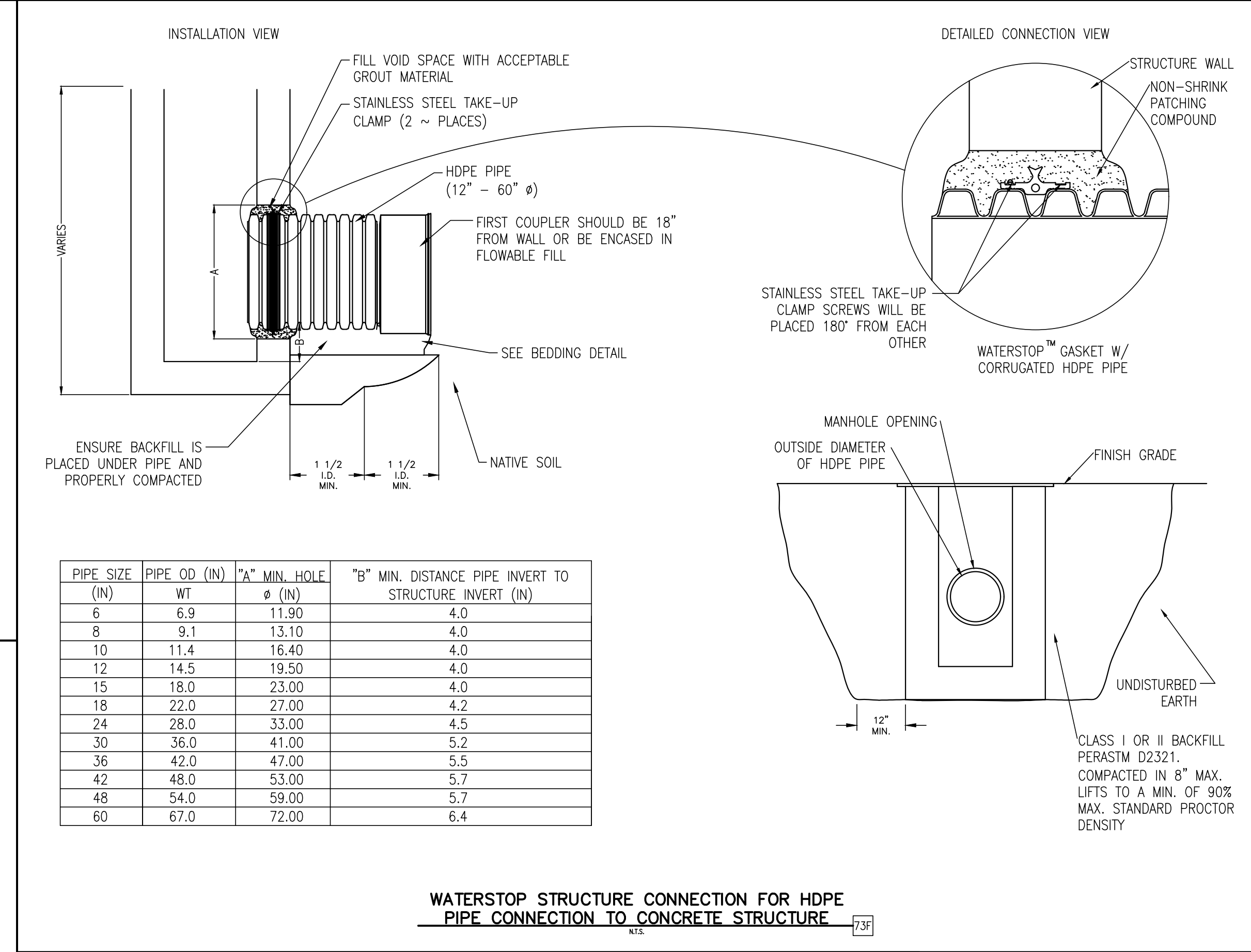
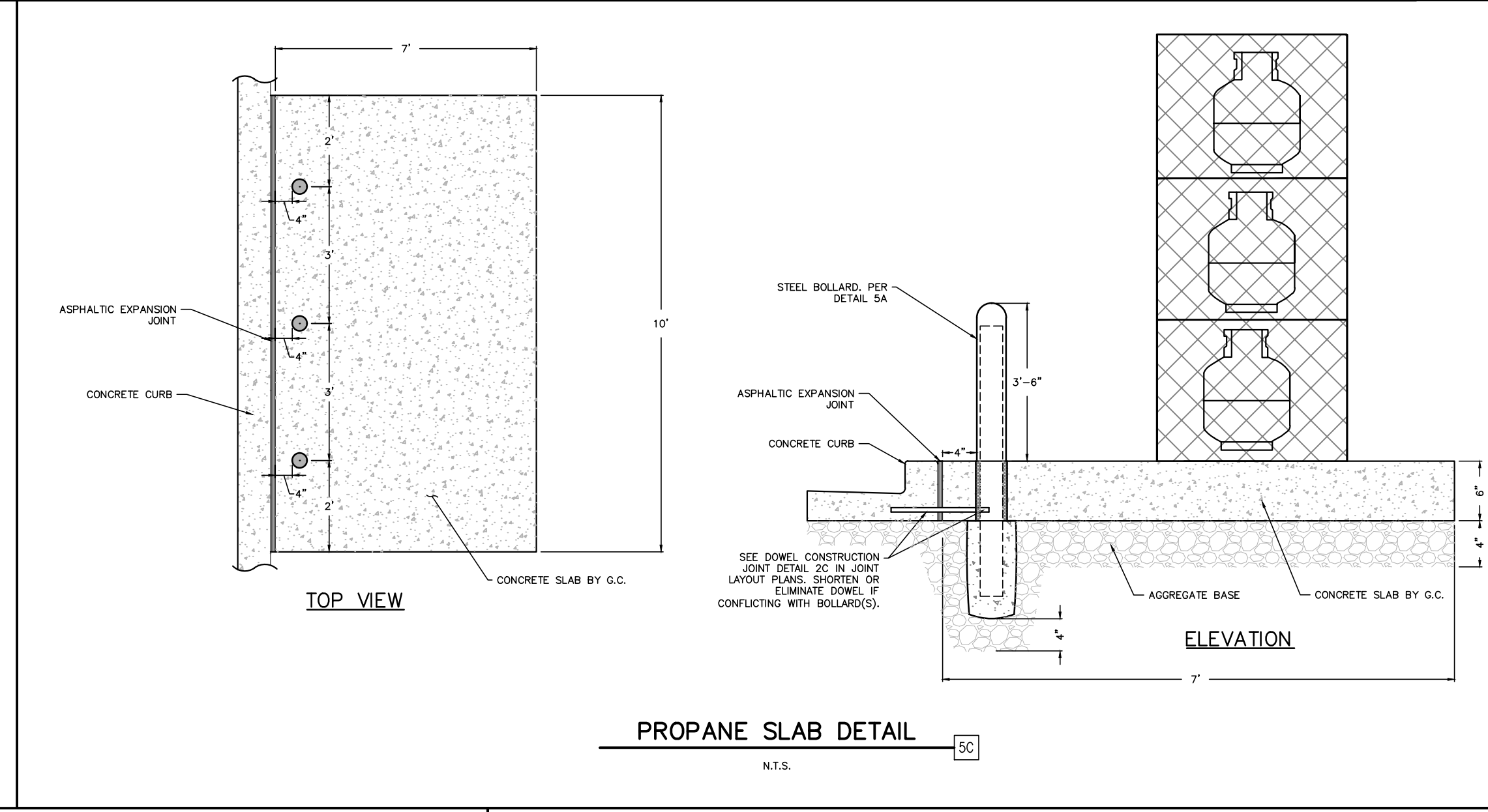
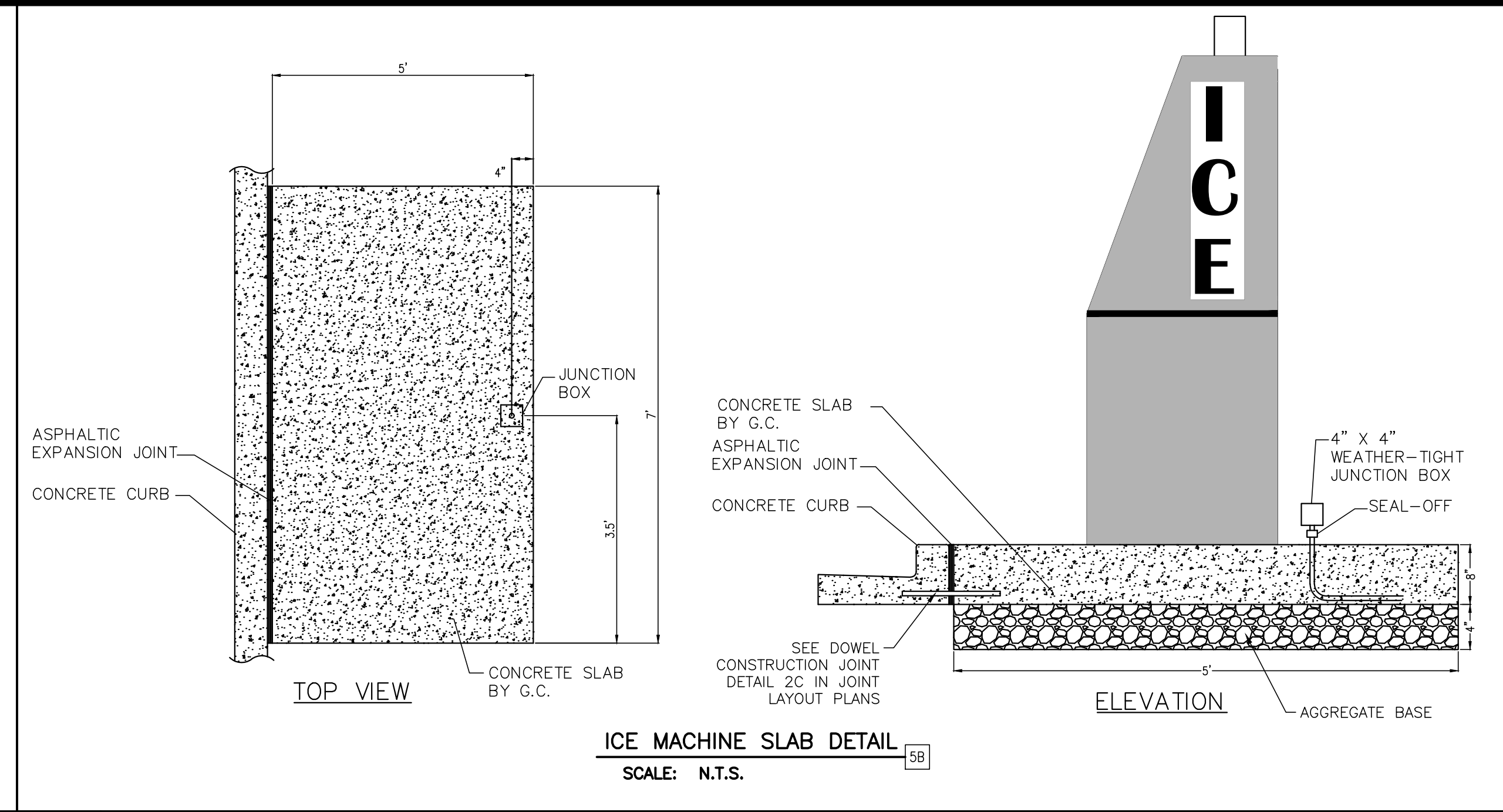
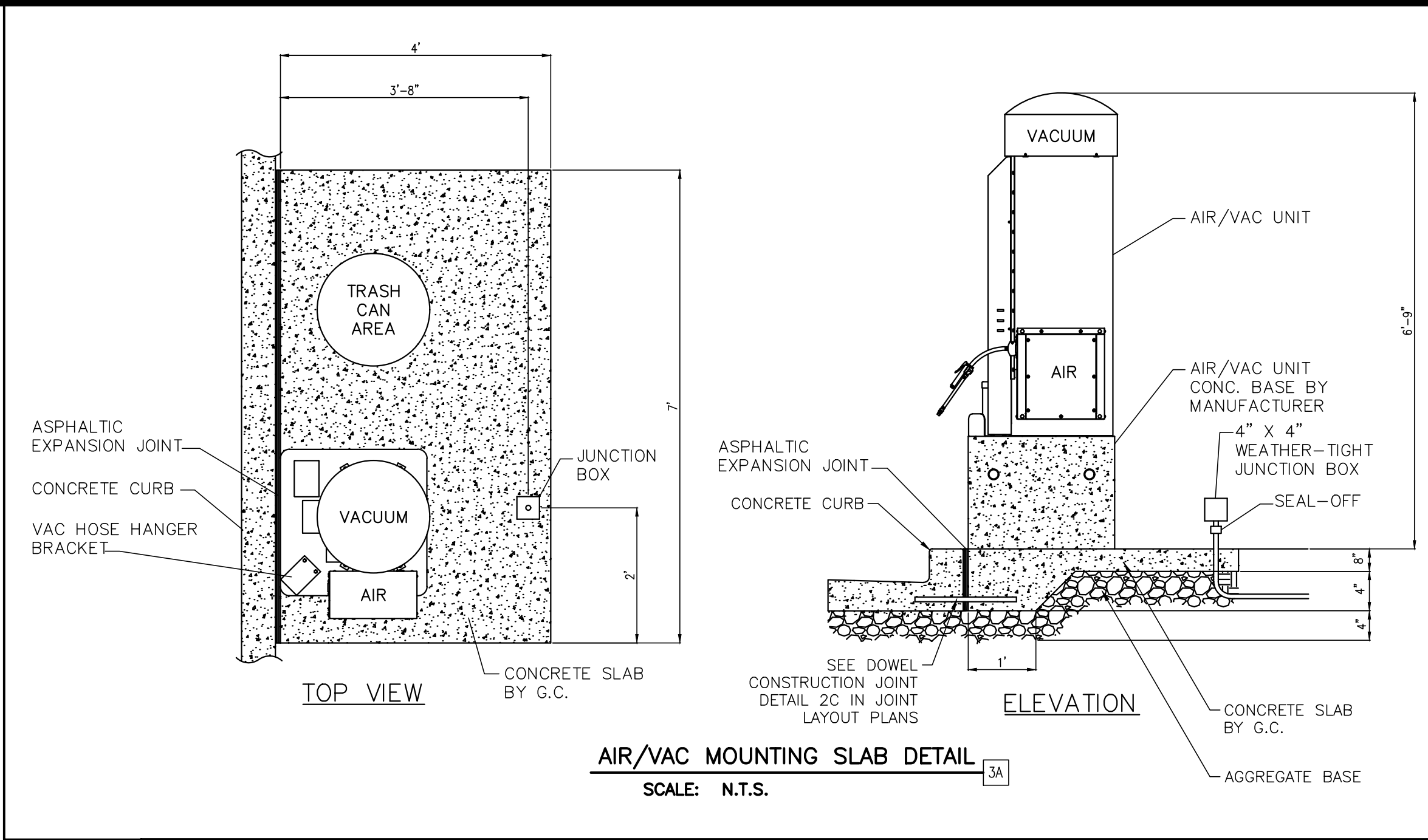
MURPHY  
USA

DETAILS  
MURPHY EXPRESS  
495 S WEBER ROAD  
ROMEIOVILLE ILLINOIS











Before final acceptance, the sanitary sewers shall be tested in accordance with Section 31-11.01 of the "Standard Specifications for Water and Sewer Main Construction in Illinois". Specifically, all pipelines constructed of flexible materials shall be subject to air infiltration tests, television test, and deflection test. The deflection test shall be performed within 30 days of the backfilling operation and shall consist of measuring the pipe for vertical ring deflection. Maximum ring deflection of the pipeline under load shall be limited to five (5) percent of the internal pipe diameter. All pipe exceeding this deflection shall be considered to have reached the limit of its serviceability and shall be re-laid or replaced by the developer. Deflection testing shall be accomplished by pulling a mandrel, sphere, or pin-type "go / no-go" device, with a diameter equal to ninety (90) percent of the internal pipe diameter, through the flexible pipe, through the pipeline. In addition, all sanitary sewer having a diameter of eight (8) inches or greater shall be televised. Copies of all video tapes must be submitted to the Village of Romeoville.

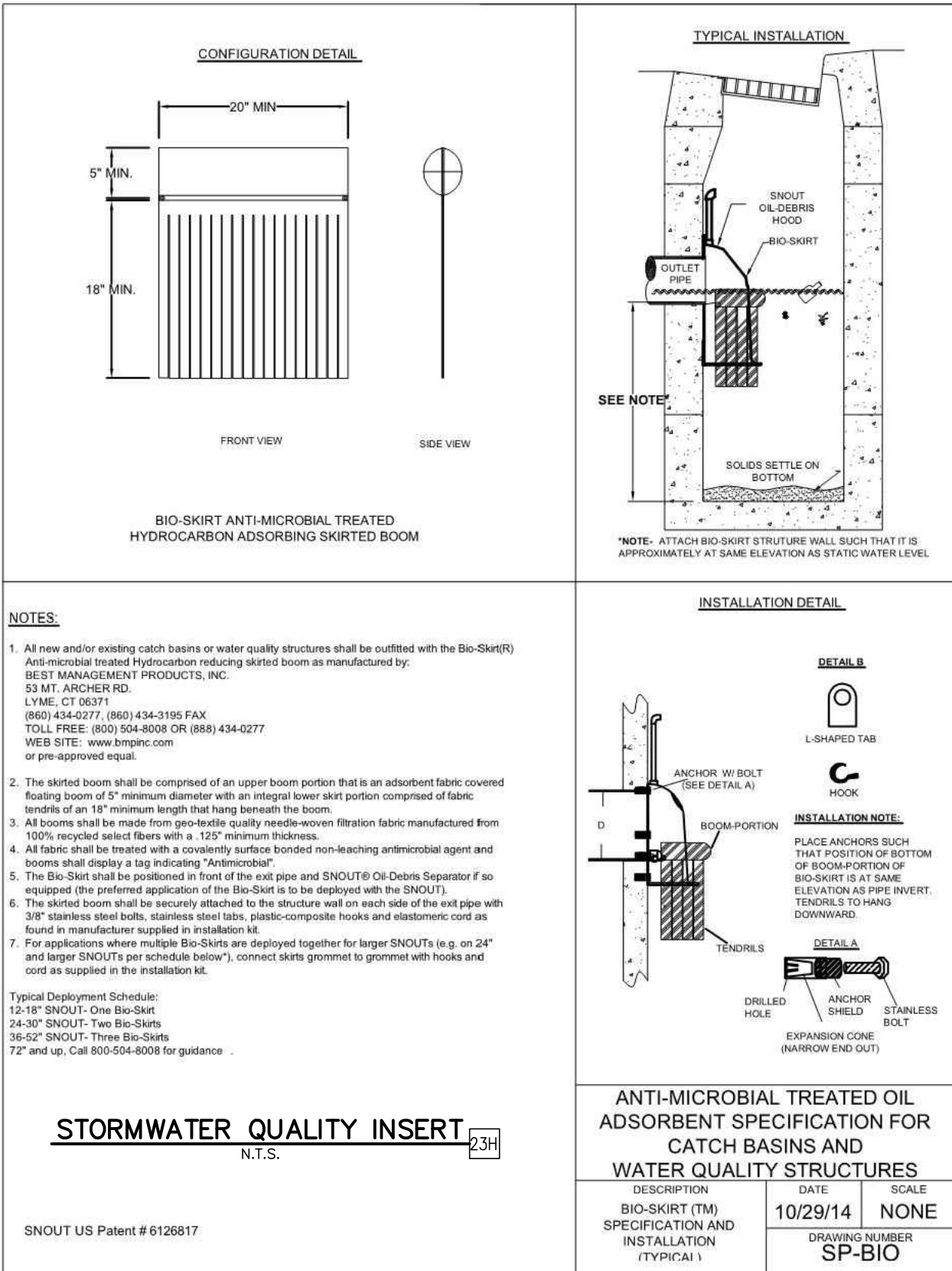
Vacuum Testing shall be carried out immediately after assembly and prior to backfilling of manholes that are up to seventy-two (72) inches in diameter. All lift holes shall be plugged with a non-shrink grout or mortar plug. The manhole from the top of the manhole to the lifting chimney shall be placed over the plug. No grout shall be placed in the horizontal joints. All pipes entering the manhole shall be plugged, taking care to securely brace the plugs from being drawn into the manhole with the vacuum testing. Vacuum testing shall test all manholes for leakage. A vacuum of ten (10) inches of mercury shall be applied to the manhole for a minimum of 15 minutes. The vacuum drop shall be 10 inches of mercury. The vacuum drop shall not exceed the requirements shown in Table 1 of ASTM C1244-02. If testing fails, developer shall seal all leaks and retest until acceptable. The testing shall be completed prior to backfilling (wherever possible) so that the leaks can be found and fixed externally, and to give the horizontal manholes an opportunity to tighten.

The developer will be required to monitor the flowrate from the site for a period of two months (encompassing at least two major storm events) to identify any excessive inflow/infiltration occurring in the system. The data must be submitted to the Village of Romeoville prior to acceptance of the public improvements.



- All new and/or existing catch basins or water quality structures shall be outfitted with the Bio-Skirt® Anti-microbial treated hydrocarbon reducing skirted boom as manufactured by:
- BEST MANAGEMENT PRODUCTS, INC.**  
53 MT. ARCHER RD.  
LYME, CT 06371  
(860) 434-0277, (860) 434-3195 FAX  
TOLL FREE: (800) 504-8008 OR (888) 434-0277  
WEB SITE: [www.bmpinc.com](http://www.bmpinc.com) EMAIL: [tjm@bmpinc.com](mailto:tjm@bmpinc.com)  
or pre-approved equal.
- The skirted boom shall be comprised of an upper boom portion that is an adsorbent fabric covered floating boom of 5" minimum diameter with an integral lower skirt portion comprised of fabric tendrils of an 18" minimum length that hang beneath the boom.
  - All booms shall be made from geo-textile quality needle-woven filtration fabric manufactured from 100% recycled select fibers with a .125" minimum thickness.
  - Each skirted boom shall be constructed of a polypropylene fabric impregnated with an antimicrobial agent and booms shall display a tag indicating "Antimicrobial".
  - The Bio-Skirt shall be positioned in front of the exit pipe and SNOUT® Oil-Debris Separator if so equipped (the preferred application of the Bio-Skirt is to be deployed with the SNOUT).
  - The skirted boom shall be securely attached to the structure wall on each side of the exit pipe with 3/8" stainless steel bolts, stainless steel tabs, plastic-composite stainless steel cord or as supplied in manufacturer supplied installation kit.
  - For applications where multiple Bio-Skirts are deployed together for larger SNOUTs (e.g. on 24" and larger SNOUTs per schedule below), connect skirts grommet to grommet with plastic hooks as supplied in the installation kit.
  - Typical Deployment Schedule:  
12-18" SNOUT- One Bio-Skirt  
24-30" SNOUT- Two Bio-Skirts  
36-52" SNOUT- Three Bio-Skirts  
72" and up, Call 800-504-8008 for guidance.

US and International Patents Pending



C. PROVIDE AN APPROVED STANDARD BRAND TYPE I-A PORTLAND CEMENT CONFORMING TO ASTM C 150.

D. PROVIDE TYPE I NORMAL PORTLAND OR TYPE III HIGH EARLY STRENGTH.

E. AIR ENTRAINED CEMENT

1. PROVIDE AN APPROVED STANDARD BRAND TYPE I-A PORTLAND CEMENT CONFORMING TO ASTM C 494.

F. ALL CONCRETE FLAT WORK SHALL HAVE A MINIMUM OF 4" COMPACTED GRANULAR BEDDING.

G. FINE AGGREGATES

1. PROVIDE FINE AGGREGATES CONFORMING TO ASTM C 33 CONSISTING OF NATURAL SAND HAVING CLEAN, HARD, STRONG, DURABLE, UNCOATED GRAINS, FREE OF INJURIOUS AMOUNTS OF DUST LUMPS, SOFT OR FLAKY PARTICLES, SHALE, ALKALI, ORGANIC MATTER, OR OTHER DELETERIOUS SUBSTANCES.

2. PROVIDE FINE AGGREGATES WITH A MINIMUM OF NINE PERCENT PASSING THROUGH A NO. 100 SIEVE.

3. IN ADDITION NOT MORE THAN 45 PERCENT IS TO BE RETAINED BETWEEN ANY TWO CONSECUTIVE SIEVES.

H. COARSE AGGREGATES

1. PROVIDE COARSE AGGREGATES CONFORMING TO ASTM C 33 CONSISTING OF CRUSHED STONE OR WASHED GRAVEL HAVING A CLEAN, HARD, STRONG, DURABLE, UNCOATED, PARTICLE FREE FROM INJURIOUS AMOUNTS OF SOFT OR FLAKY PIECES, ALKALI, ORGANIC MATTER, OR OTHER DELETERIOUS SUBSTANCES.

2. PROVIDE COARSE AGGREGATE WITH A MAXIMUM OF 1-1/2 INCHES, WITH A MINIMUM OF 95 PERCENT PASSING A 1-1/2 INCH SIEVE.

3. NOT MORE THAN FIVE PERCENT IS TO PASS A NO. 4 SIEVE.

I. WATER

1. USE CLEAN WATER FREE OF INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALI, SILTS, ORGANIC MATERIALS, OR OTHER SUBSTANCES THAT MAY BE DELETERIOUS TO CONCRETE OR STEEL.

J. ALL CONCRETE SHALL BE PLACED ON VAPOR BARRIER OF 4 MIL OR GREATER POLYETHYLENE TO ASSURE COMPLETE HYDRATION OCCURS.

K. CONCRETE MIX DESIGN

1. REQUIRE BATCH TICKETS TO BE FURNISHED UPON DELIVERY OF THE CONCRETE TO ENSURE CONCRETE MEETS THE SPECIFICATION. CONTRACTOR TO PROVIDE PLANT BATCH CERTIFICATIONS TO OWNER'S FIELD REPRESENTATIVE.

2. PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM OF SIX BAGS (564 LBS.) OF CEMENT IN EACH CUBIC YARD OF CONCRETE. CONFORMING TO ASTM C 94 FOR READY-MIXED CONCRETE. ALL CONCRETE SHALL BE CERTIFIED AS HIGH-EARLY STRENGTH, 4000 P.S.I. 28-DAY COMPRESSIVE STRENGTH READY-MIXED CONCRETE.

3. DO NOT EXCEED THE MAXIMUM WATER CEMENT RATIO OF 0.44 (FIVE GALLONS/BAG OF CEMENT).

4. PROVIDE CONCRETE WITH A MAXIMUM FOUR INCH SLUMP WHEN TESTED WITH A STANDARD SLUMP CONE CONFORMING TO ASTM C 143. SLUMP SHALL BE 4-5".

a. IF CONCRETE DEVELOPS CONSISTENCY OF DIFFICULT WORKABILITY, THEN A SUPER PLASTICIZER ADMIXTURE MAY BE USED WHEN APPROVED BY MURPHY OIL USA, INC.

b. DO NOT ADD WATER TO INCREASE SLUMP.

5. CALCIUM CHLORIDE SHALL NOT BE USED.

6. CURING COMPOUND TO BE MASTER BUILDERS' MASTERKURE OR TAMS INDUSTRIES' TRI-DOR 44 APPLIED PER MANUFACTURER'S SPECIFICATIONS.

L. PROVIDE AIR ENTRAINED CONCRETE FOR ALL CONCRETE TO BE FINISHED INCLUDING FOUNDATIONS, WALKS, PAVEMENTS, AND RETAINING WALLS.

1. AIR ENTRAINMENT IS TO BE A MINIMUM OF FIVE PERCENT AND MAXIMUM OF SEVEN PERCENT BY VOLUME.

2. MEASURE THE AIR CONTENT AT THE POINT OF DISCHARGE INTO FORMS.

M. PLACING CONCRETE

1. MIX AND PLACE CONCRETE FOLLOWING ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

2. SCHEDULE CONCRETING THAT ONCE STARTED REMAINS A CONTINUOUS OPERATION UNTIL THE PARTICULAR SECTION OR PANEL HAS BEEN COMPLETED.

3. PROVIDE CONSTRUCTION JOINTS AS INDICATED.

4. DEPOSIT CONCRETE INTO THE FINAL POSITION AT THE SPECIFIED SLUICES WITHOUT SEGREGATION BY RE-HANDLING OR FLOWING.

a. DEPOSIT CONCRETE AT A RATE THAT CONCRETE REMAINS PLASTIC AND FLOWABLE INTO THE SPACES BETWEEN THE REINFORCING BARS.

b. DO NOT DEPOSIT FRESH CONCRETE ON CONCRETE THAT HAS HARDENED SUFFICIENTLY TO CAUSE FORMATION OF SEAMS OR PLANES OF WEAKNESS WITH THE SECTION OR PANEL.

c. DO NOT DEPOSIT PARTIALLY HARDENED CONCRETE OR CONCRETE THAT HAS BEEN CONTAMINATED BY FOREIGN MATERIALS.

d. DO NOT RE-TEMPER CONCRETE.

5. THOROUGHLY COMPACT CONCRETE BY MEANS OF MECHANICAL VIBRATORS SUPERVISED BY AN EXPERIENCED PERSONNEL.

a. PROVIDE SUFFICIENT VIBRATION INTENSITY TO CAUSE FLOW OR SETTLEMENT AROUND REINFORCEMENT EMBEDDED ITEMS, AND CORNERS OF THE FORMS; BUT NOT LONG ENOUGH TO CAUSE SEGREGATION OF THE MIX.

b. SUPPLEMENT MECHANICAL VIBRATION BY HAND SPADING IN CORNERS AND ANGLES OF THE FORMS AND ALONG FORM SURFACES WHILE THE CONCRETE IS PLASTIC TO ENSURE EVEN DENSE SURFACES FREE FROM AGGREGATE POCKETS OR HONEYCOMBS.

6. PROTECT CONCRETE FROM EXCESSIVE HEAT AND PREMATURE DRYING BY THE USE OF KRAFT PAPER AND WATER MIST.

7. COAT CONCRETE AFTER ALL FINISHING IS COMPLETE USING THE SPECIFIED CURATIVE AGENTS.

8. IF SAW CUTTING IS EMPLOYED, IT MUST OCCUR FROM 8-12 HOURS AFTER INITIAL SET. c) SPALLING DUE TO SAW CUTTING ACTIONS MAY RESULT IN REJECTION OF THE CONCRETE WORK.

N. COLD WEATHER REQUIREMENTS

1. FOLLOW THE REQUIREMENTS OF ACI 306.1-90 AND THE FOLLOWING

a. REFER TO: "RECOMMENDED PRACTICES FOR COLD WEATHER MASONRY CONSTRUCTION" AS PUBLISHED BY INTERNATIONAL MASONRY INDUSTRY ALL WEATHER COUNCIL FOR TYPICAL COLD WEATHER MASONRY PRACTICES TO BE FOLLOWED.

b. PROVIDE ADEQUATE EQUIPMENT FOR HEATING CONCRETE MATERIALS, AND FOR PROTECTION OF THE CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER.

c. MAINTAIN CONCRETE MATERIALS, REINFORCEMENT, FORM WORK, FILLERS, AND GROUND TO BE IN CONTACT WITH THE CONCRETE FREE OF FROST. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE.

d. PROVIDE CONCRETE, DELIVERED IN COLD WEATHER, WITH THE FOLLOWING TEMPERATURES: AIR TEMP. MIN. CONCRETE TEMP. 30-40 °F 60 °F 0-30 °F 65 °F BELOW 0 °F 70 °F

e. WHEN PRODUCING CONCRETE WITH HEATED AGGREGATES, HEATED WATER OR BOTH, DO NOT ALLOW CONCRETE TO EXCEED 90°F DURING PRODUCTION OR TRANSPORTATION.

f. ALL CONCRETE SLABS PLACED AT AIR TEMPERATURES FROM 20°F TO 50°F MAY HAVE AN ACCELERATING WATER REDUCING ADMIXTURE ADDITIVE ADDED TO ACCELERATE SETTING TIME AND STRENGTH ADMIXTURE COMPLYING WITH ASTM C 494, TYPE C.

1. ACCEPTABLE ADMIXTURES ARE: FLUCID CHEMICAL COMPANY'S "ACCELAURD 90", OR EQUAL PRODUCTS BY W.R. HEADONS, INC. OR W.R. GRACE & CO.

(a) ADD ACCELAURD 90 W/ WATER & AGGREGATE TO THE READY MIX CONCRETE TRUCK, BUT DO NOT DISPENSE ONTO DRY CONCRETE.

(b) FOR TEMPERATURES 32° F - 60° F, ADD AT A RATE OF 160Z./100 LBS. OF CONCRETE.

(c) FOR TEMPERATURES BELOW 32° F, HEAT AGGREGATE AND USE WARM WATER SO THAT WHEN MIXED CONCRETE TEMPERATURE WILL BE ABOVE 60°.

2. FOLLOW THE MANUFACTURER'S INSTRUCTION FOR THE QUANTITY TO BE ADDED TO THE CONCRETE MIX, DEPENDING UPON THE AMBIENT TEMPERATURE, DESIRED RATE OF ACCELERATION, EARLY STRENGTH GAIN, AND STRIPPING SCHEDULE. g) MAINTAIN CONCRETE ABOVE 50°F IN A MOST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER PLACEMENT FOLLOWING THE RECOMMENDATIONS OF ACI 308-92.

O. HOT WEATHER REQUIREMENTS

1. FOLLOWING THE REQUIREMENTS OF ACI 305R.

2. DURING HOT WEATHER, TAKE STEPS TO REDUCE CONCRETE TEMPERATURE AND WATER EVAPORATION BY PROPER ATTENTION TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION AND CURING.

3. THE PREFERRED PROTECTION IS A COVERING OF KRAFT PAPER, CONFORMING TO ASTM C 171, FOR A TWENTY FOUR HOUR PERIOD AFTER PLACEMENT.

M. CONCRETE FORMWORK

1. PROVIDE DRESSED LUMBER OR MANUFACTURED FORMS CONFORMING TO THE SHAPE, LINES, AND DIMENSIONS OF CONCRETE STRUCTURES INDICATED ON THE DRAWINGS: FREE FROM DEFECTS AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF MORTAR.
2. ALL WOODEN FORMS TO BE NO LESS THAN THE SPECIFIED DEPTH OF THE SLAB TO BE POURED, AND NOT LESS THAN NOMINAL 2" X 4" SIZE.
3. STAKING FOR STRAIGHT SECTIONS SHALL OCCUR NOT LESS FREQUENTLY THAN EVERY FOUR FEET AND SHALL BE BOTH INSIDE AND OUTSIDE OF THE FORM.
4. FOR CURVES, STAKING SHALL OCCUR NOT LESS THAN EVERY FOOT, AND SHALL BE BOTH INSIDE AND OUTSIDE OF THE FORM.
5. STEEL FORMS SHALL BE STAKED ACCORDING TO THEIR DESIGN REQUIREMENTS.
6. ALL REMOVABLE FORMS SHALL BE COATED WITH FORM RELEASE OIL PRIOR TO PLACEMENT OF CONCRETE.
7. CYLINDRICAL FORMS SHALL BE OF NEW SONOTUBE OR EQUIVALENT DISPOSABLE MATERIALS.
  - a. THESE MATERIALS MUST BE REMOVED COMPLETELY AFTER USE. ISLAND FORMS SHALL BE POSITIONED USING MASONRY BLOCKING AND STEEL STAKES BOTH INSIDE AND OUTSIDE OF THE FORM, TO ACHIEVE AN AVERAGE AS PER REVEAL HEIGHT AS MEASURED AT THE CENTER OF ANY LONG SIDE OF THE ISLAND, SEE DRAWINGS FD-1 AND FD-2
8. THE SIDES OF THE ISLAND FORM SHALL BE SHIMMED AGAINST THE STAKES TO PROVIDE A PERFECTLY PLUMB FREEBOARD.
9. ALL EDGES CREATED BY REMOVABLE FORMS SHALL BE TOOL-RADIUSSED AFTER SURFACE FINISHING TO PROVIDE A SMOOTH BORDER ON ALL SLABS.
10. FORMS SHALL BE REMOVED NO SOONER THAN 24 HOURS FROM THE TIME OF THE POUR.
11. PROPERLY BRACE OR TIE FORMS TOGETHER TO MAINTAIN SHAPE AND POSITION.
12. PROVIDE SQUARE EDGE WOOD OR, IF AVAILABLE, METAL FORMS FOR FLOOR SLABS.
13. BEFORE POURING CONCRETE, REMOVE ALL DEBRIS FROM THE FORMWORK.
14. WET DOWN FORMWORK PRIOR TO PLACEMENT, OR APPLY A FORM RELEASE AGENT FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
15. DO NOT REMOVE FORMWORK AND BRACING UNTIL CONCRETE HAS GAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT, CONSTRUCTION LOADS, AND DESIGN LOADS WHICH ARE LIABLE TO BE IMPOSED ON IT.
16. REMOVE FORMS IN A MANNER TO ASSURE THE COMPLETE SAFETY OF THE STRUCTURE.
17. DO NOT PLACE ANY CONCRETE IF THE SUB GRADE HAS STANDING WATER OR IS MUDDY.

N. STEEL REINFORCEMENT

1. PROVIDE REINFORCING BARS CONFORMING TO ASTM A 615, GRADE 60 FREE OF LOOSE FLAKY RUST, MUD, OIL, OR OTHER COATINGS WHICH WILL ADVERSELY AFFECT BONDING CAPACITY.
2. PLACE REINFORCEMENT ACCURATELY AND ADEQUATELY SUPPORTED BY CONCRETE MASONRY UNITS OR OTHER APPROVED SPACERS.
3. SECURE REINFORCEMENT AGAINST DISPLACEMENT WITHIN TOLERANCES SPECIFIED IN "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
4. HOLD BARS IN PLACE USING A MINIMUM 18 GAUGE ANNEALED IRON WIRE.
5. SPLICES IN DEFORMED REINFORCING BARS WILL NOT BE PERMITTED UNLESS APPROVED BY MURPHY OIL USA, INC.
6. REINFORCING ROD TO COMPLY WITH ASTM 615, GRADE 60.

O. ALTERNATE WELDED WIRE FABRIC REINFORCEMENT

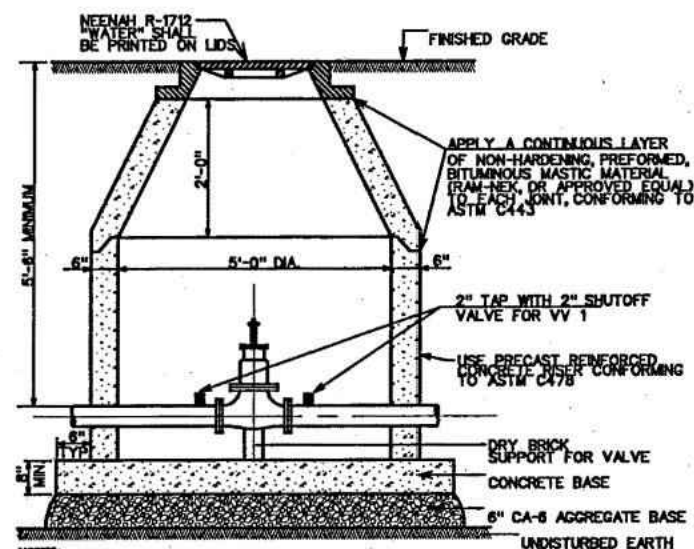
1. ONLY WHEN INDICATED ON THE DRAWINGS, PROVIDE WELDED WIRE FABRIC CONFORMING TO ASTM A 185 FOR 6X6 W2.9 X W2.9 IN FLAT SHEETS UNLESS OTHERWISE INDICATED.
2. INSTALL WELDED WIRE FABRIC IN LENGTHS AS LONG AS PRACTICAL.
3. THE MINIMUM OVERLAP LENGTH, MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET, IS NOT TO BE LESS THAN ONE SPACING OF CROSS WIRES PLUS TWO INCHES.

P. FOUNDATIONS

1. PROVIDE SMOOTH FINISH AT ALL EXPOSED SURFACES.
2. CONSTRUCT CORNERS WITH A ONE INCH CHAMFER.
3. INCREASE THE DEPTH OF FOUNDATIONS, IF REQUIRED BY FROST LINE CONDITIONS OR BY LOCAL CODES.
4. OBTAIN MURPHY OIL USA, INC. APPROVAL OF ADDITIONAL DEPTH REQUIREMENTS BEFORE PLACING CONCRETE.
5. CONSTRUCT TOP ELEVATION OF FOUNDATIONS TO WITHIN +1/4 INCH OF THE ELEVATION INDICATED ON THE DRAWINGS. 6. INSTALL ANCHOR BOLTS WITH A HORIZONTAL TOLERANCE OF +1/8 INCH AND A VERTICAL ALIGNMENT OF +1/8 INCH OUT OF PLUMB.

Q. GROUT

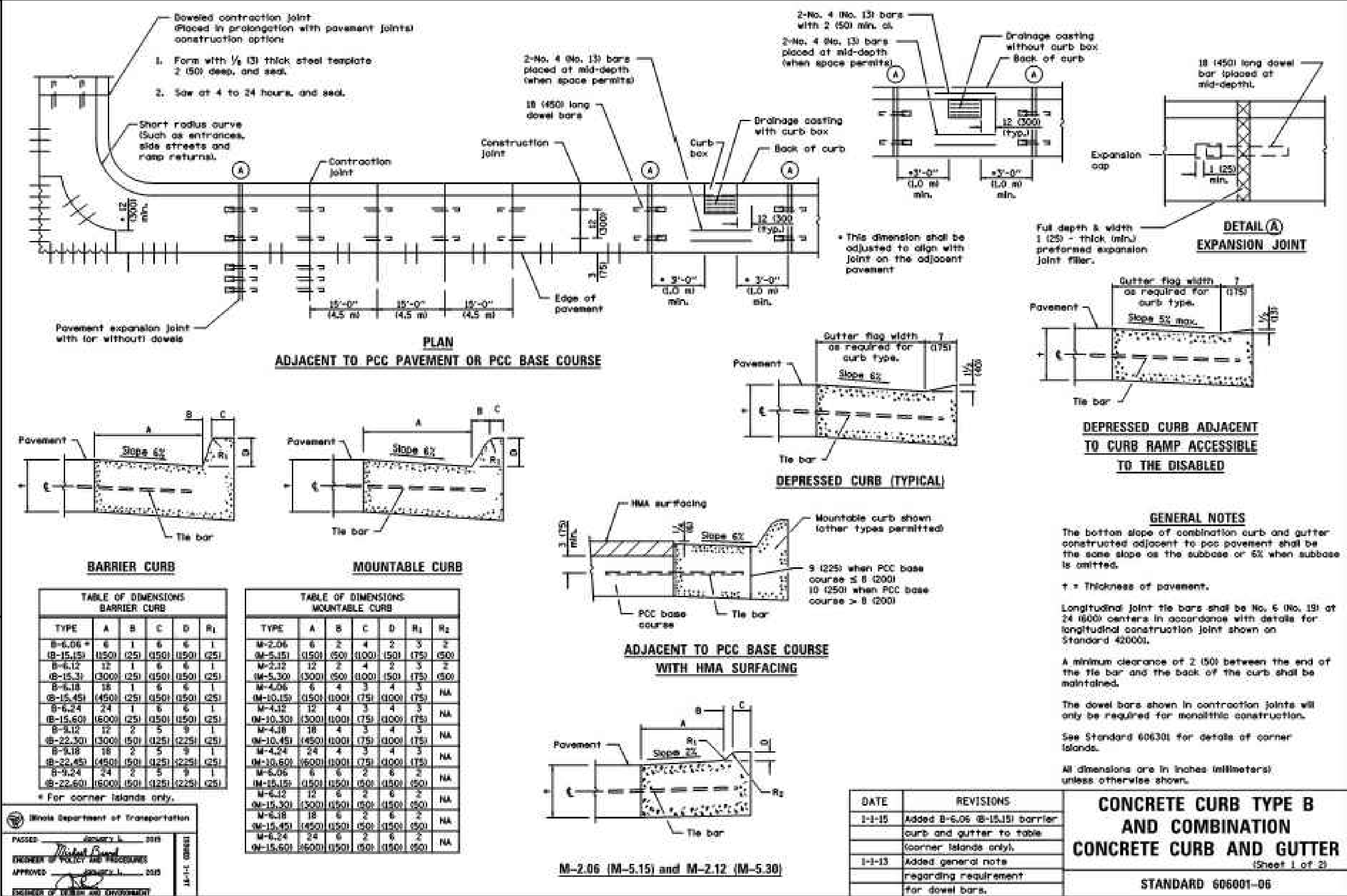
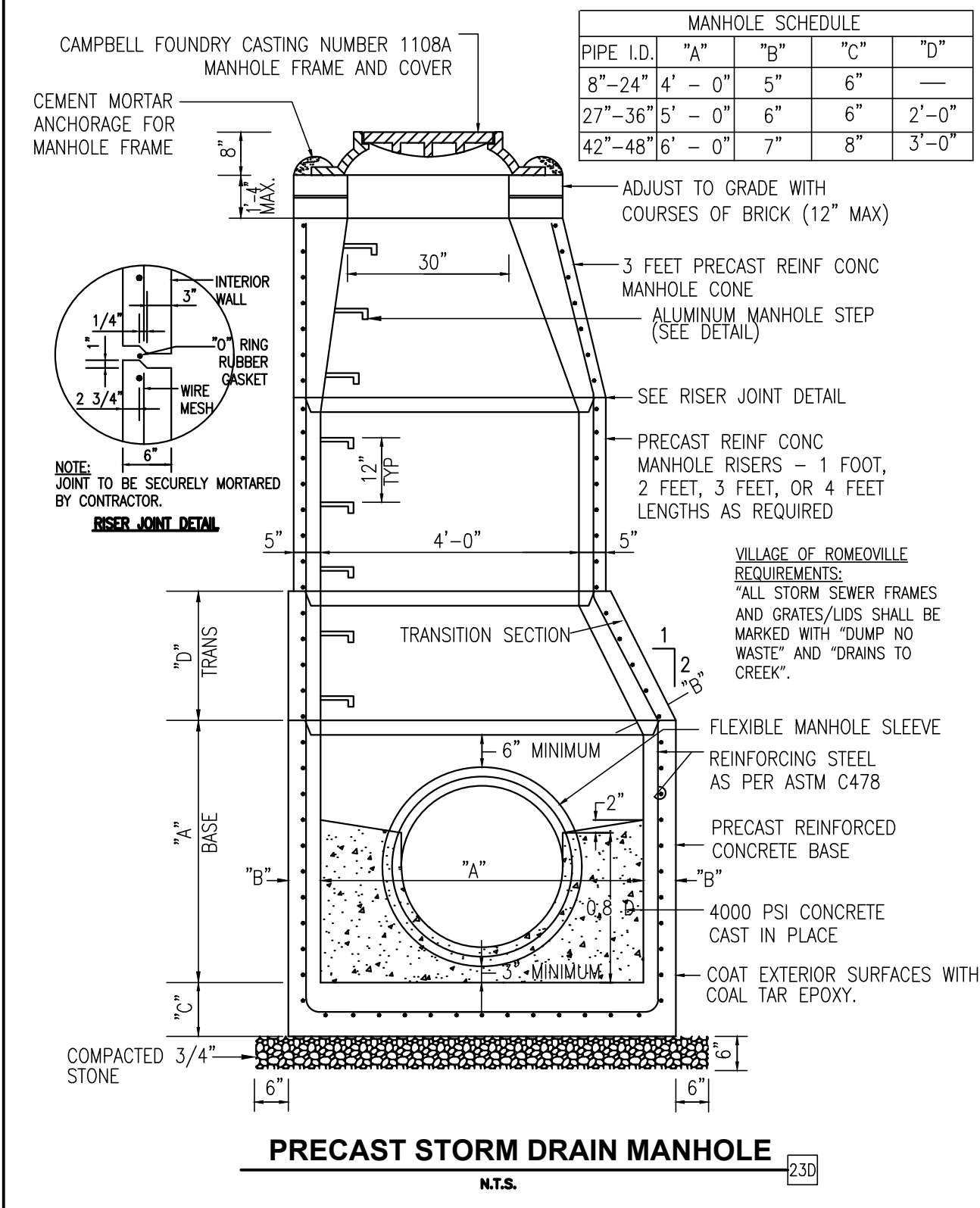
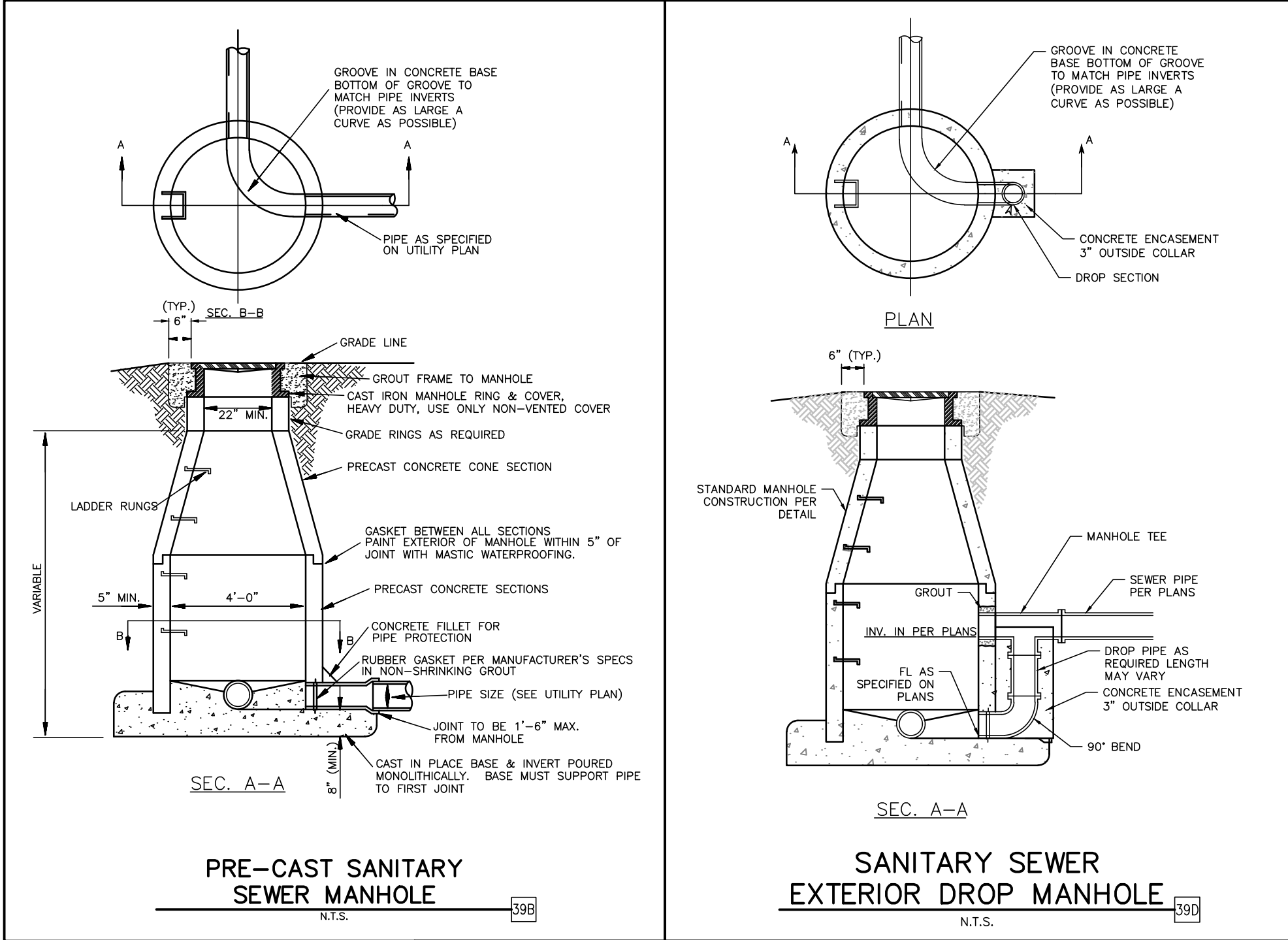
1. PROVIDE NON-METALLIC, NON-SHRINK, INDEXED NON-STAINING GROUT CONTAINING SELECTED SILICA SANDS, ASTM C 150 TYPE I PORTLAND CEMENT, AND SHRINKAGE COMPENSATING AGENTS.
2. ACCEPTABLE PRODUCTS ARE "EMBECCO" BY MASTER BUILDERS AND "FIVE STAR GROUT" BY U.S. GROUT CORPORATION.

**VALVE VAULT (WATER TIGHT)** 50A









**GreenbergFarrow**

1430 W. PEACHTREE ST., NW SUITE 200  
ATLANTA, GA 30369  
TEL: (404) 524-8800  
FAX: (404) 524-8801  
DWC NAME: ROMEIOVILLE (WEBER), IL  
JOB NO.: 20160930

**MURPHY OIL USA, INC.**

**MURPHY USA**  
200 PEACH STREET  
EL DORADO, AR 71730

**SHEET NO.**

**DETAILS**

**MURPHY EXPRESS**

**495 S WEBER ROAD**

**ROMEIOVILLE ILLINOIS**

**C-18**

**REV-2**

**DATE**

**UN**

**PRN**

**PM**

**DES**

**DRW**

**05-26-17**

**DATE**

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## SOLID STATE AREA LIGHTING

### DSAP SERIES-LED

#### SPECIFICATIONS

**HOUSING**  
Upper housing is heavy gauge cast aluminum (DSAP25) or 0.125" thick spun aluminum with reveal (DSAP1). Lower housing is 0.080" thick spun aluminum with integrated LED module seal. Lower housing is vented at top and bottom for convective cooling of LED module. Top Driver chamber is sealed from LED Module chamber. Truvel ball coupling mount is welded to housing and facilitates quick leveling and installation.

**VLED OPTICS**  
Low copper A56 alloy (<2% copper) cast aluminum housing. Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LEDs) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. Module is sealed to meet an IP67 rating. LEDs are available in standard Neutral White (5000K), or optional Cool White (5000K) or Warm White (3000K). Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module, one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V50 distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

**LED DRIVER**  
Drivers are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Constant current driver is electronic and has a power factor of >0.90 and a minimum operating temperature of -40°F. Drivers accept an input of 120-277V, 50/60Hz, (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection.)

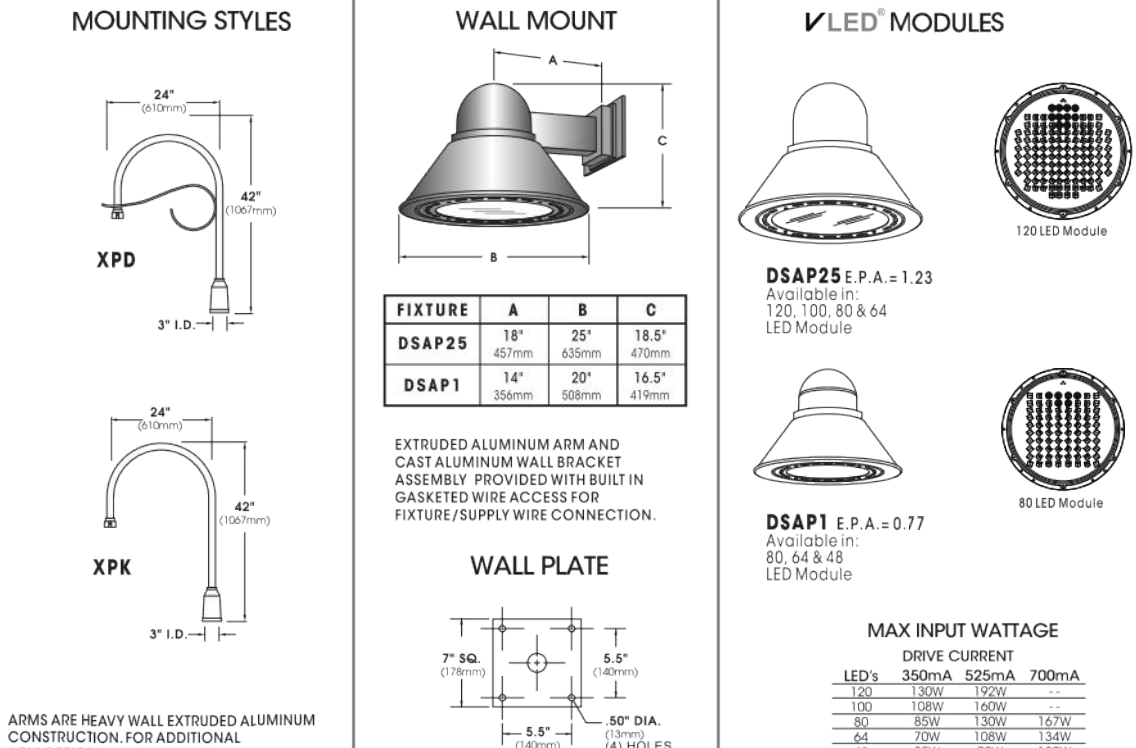
**FINISH**  
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.



U.S. Architectural Lighting  
1801 West Avenue C, Palmdale, CA 93551  
Phone (818) 225-5800, Fax (818) 225-5801  
www.usalighting.com

## DSAP SERIES - LED

#### SPECIFICATIONS



LUMINAIRE	OPTICS	LED	MOUNTING	FINISH	OPTIONS
LUMINAIRE	IES DISTRIBUTION TYPE	# of LED's DRIVE CURRENT COLOR	ARM MOUNT	STANDARD TEXTURED FINISH	HOUSE SIDE SHIELDED REFLECTOR REBAR, H6 VMD
<input type="checkbox"/> DSAP1	<input type="checkbox"/> VLED - II	<input type="checkbox"/> DSAP1 700mA	<input type="checkbox"/> XPD	<input type="checkbox"/> BLACK RAL-9005-T	<input type="checkbox"/> PHOTO CELL VOLUME DIMMING (PCV) - PCV
<input type="checkbox"/> DSAP25	<input type="checkbox"/> VLED - III	<input type="checkbox"/> DSAP25 640LED	<input type="checkbox"/> XPK	<input type="checkbox"/> WHITE RAL-9003-T	<input type="checkbox"/> PHOTO CELL VOLUME DIMMING (PCV) - PCV
	<input type="checkbox"/> VLED - IV	<input type="checkbox"/> DSAP25 48LED	<input type="checkbox"/> WALLMOUNT	<input type="checkbox"/> GREEN RAL-6004-T	<input type="checkbox"/> PHOTO CELL VOLUME DIMMING (PCV) - PCV
	<input type="checkbox"/> VLED - V50	<input type="checkbox"/> DSAP25 350mA	<input type="checkbox"/> WM	<input type="checkbox"/> DARK BRONZE RAL-8019-T	<input type="checkbox"/> PHOTO CELL VOLUME DIMMING (PCV) - PCV
		<input type="checkbox"/> DSAP25 350mA		<input type="checkbox"/> GREEN RAL-6004-T	<input type="checkbox"/> PHOTO CELL VOLUME DIMMING (PCV) - PCV
		<input type="checkbox"/> DSAP25 350mA		<input type="checkbox"/> GREEN RAL-6004-T	<input type="checkbox"/> PHOTO CELL VOLUME DIMMING (PCV) - PCV
		<input type="checkbox"/> DSAP25 350mA		<input type="checkbox"/> GREEN RAL-6004-T	<input type="checkbox"/> PHOTO CELL VOLUME DIMMING (PCV) - PCV
		<input type="checkbox"/> DSAP25 350mA		<input type="checkbox"/> GREEN RAL-6004-T	<input type="checkbox"/> PHOTO CELL VOLUME DIMMING (PCV) - PCV
		<input type="checkbox"/> DSAP25 350mA		<input type="checkbox"/> GREEN RAL-6004-T	<input type="checkbox"/> PHOTO CELL VOLUME DIMMING (PCV) - PCV

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## RNTS SERIES

### ENGINEERING DATA

#### Maximum EPA - Square Feet

Catalog Number	Maximum Fixt. Wgt.	100 MPH	90 MPH	80 MPH	70 MPH
RNTS 104-11	225	12.0	14.7	17.8	20.9
RNTS 124-11	165	9.3	11.7	14.5	17.2
RNTS 144-11	135	7.5	9.0	10.8	11.9
RNTS 164-11	110	5.8	7.2	9.3	11.2
RNTS 184-11	100	4.6	5.8	7.5	9.0
RNTS 204-11	100	3.6	4.4	6.0	7.2
RNTS 204-7	135	6.8	10.2	14.8	18.6
RNTS 244-7	110	3.2	5.8	8.9	13.1

All above design calculations are based on sustained wind forces plus additional 1.3 wind gust (Example: Pole rated at 80 MPH with winds 104 MPH gusts)

#### ORDERING INFORMATION

MODEL NO.	POLES	MOUNTING	FINISH	OPTIONS
RNTS	POLES	MOUNTING	FINISH	OPTIONS
	POLES	MOUNTING	FINISH	OPTIONS
	POLES	MOUNTING	FINISH	OPTIONS
	POLES	MOUNTING	FINISH	OPTIONS
	POLES	MOUNTING	FINISH	OPTIONS
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## MANUFACTURER SPECIFICATION SHEET FOR SITE FIXTURES

## MANUFACTURER SPECIFICATION SHEET FOR SITE FIXTURE POLES

## LED CANOPY LIGHT - LEGACY™ (CRUS)

**SC - Standard Symmetric**  
**AC - Asymmetric**  
AC distribution utilizes a reflector which alters the look from a standard S distribution

**DOE LIGHTING FACTS**  
Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit [www.lightingfacts.com](http://www.lightingfacts.com) for specific catalog strings.

**HOUSING** - Low profile, durable die-cast aluminum construction, providing a reliable weather-tight seal.  
**LED'S** - Features an array of select, mid-power, high brightness, high efficiency LED chips: 5000K color temperature, 70 CRI (nominal).  
**DRIVER CURRENT** - Choice of Very Low Voltage (VLV), Low Voltage (LV), Super Saver (SS), High Output (HO) or Very High Output (VHO).  
**OPTICS / DISTRIBUTION** - Choice of Symmetrical or Asymmetrical, which directs light through a clear tempered glass lens, to provide a uniform distribution of light to vertical and horizontal surfaces.  
**OPTICAL UNIT** - Features an ultra-slim 7/8" profile die-cast housing, with a flat glass lens. Unit is water-resistant, sealed to an IP67 rating. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.  
**HAZARDOUS LOCATION** - Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 only when properly installed per LSI installation instructions (consult factory).  
**PRESSURE STABILIZING VENT** - Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.  
**DRIVER HOUSING** - Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and contributes to attaining the lowest operating temperatures available. Seals to optical housing via one-piece molded silicone gasket.  
**OPERATING TEMPERATURE** - 40°C to 50°C (-40°F to +122°F)  
**ELECTRICAL** - Universal voltage power supply, 120-277 VAC, 50/60 Hz input. Drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C.  
**FINISH** - Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.  
**INSTALLATION** - One person installation. No additional sealant required. Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scoredate (4") hole as well as openings for Encore and Encore Top Access and is reconnect wiring for the SOCEIA without having to relocate the conduit. Retrofit panels are available for existing Encores (see back page) as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.  
**SHIPPING WEIGHT** - 27 pounds (single pack), 48 pounds (double pack).  
**EXPECTED LIFE** - Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.  
**WARRANTY** - Limited 5-year warranty.  
**LISTING** - UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.  
**PHOTOMETRICS** - Please visit our web site at [www.lsi-industries.com](http://www.lsi-industries.com) for detailed photometric data.

This product, or selected versions of this product, meet the standards listed below.  
Please consult factory for your specific requirements.

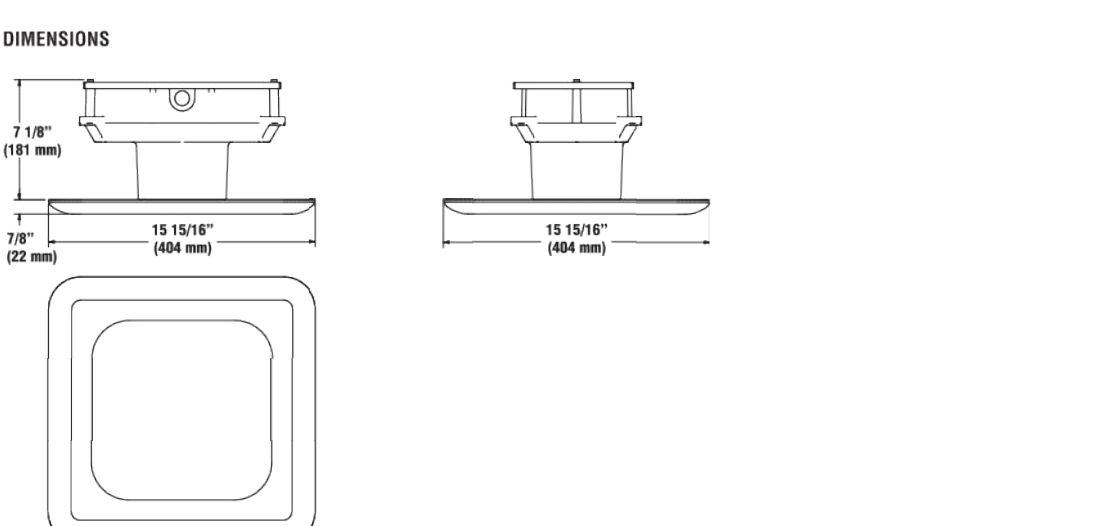
Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_  
Catalog # \_\_\_\_\_  
LSI INDUSTRIES INC.

## LED CANOPY LIGHT - LEGACY™ (CRUS)

Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
CRUS	SC - Standard Symmetric	LED	VLV - Very Low Volt	5000K	120-277V	Black	None
	AC - Asymmetric	LED	LV - Low Voltage	5000K	120-277V	Black	None
		LED	SS - Super Saver	5000K	120-277V	Black	None
		LED	HO - High Output	5000K	120-277V	Black	None
		LED	VHO - Very High Output	5000K	120-277V	Black	None

NOTES:  
1. AC distribution utilizes a reflector which alters the look from a standard S distribution.

Accessory	Description	Order Number	Order Number
Accessories are field installed.			
Accessories are field installed.			
Accessories are field installed.			
Accessories are field installed.			
Accessories are field installed.			



Light Output - CRUS	SC	AC	SC	AC	SC	AC
VLV - Very Low Volt	8842	-	79	-	112	-
LV - Low Volt	10871	8746	88	83	124	105
SS - Super Saver	13054	11518	114	111	119	104
HO - High Output	18633	-	132	-	141	-
VHO - Very High Output	22418	17262	159	157	141	110

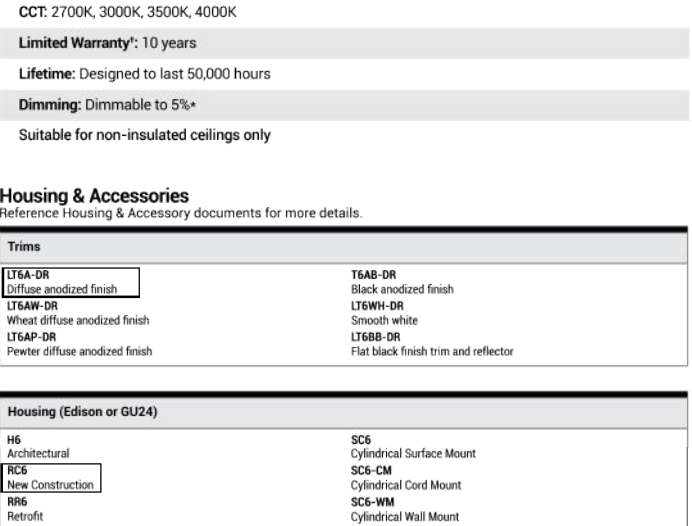
Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_  
Catalog # \_\_\_\_\_  
LSI INDUSTRIES INC.

## LR6-18L

**6" LED Downlight**  
The LR6-18L LED downlight delivers 1800 lumens of exceptional 90+ CRI light while achieving 90 lumens per watt. This breakthrough performance is achieved by combining the high efficiency and high-quality light of Cree TrueWhite™ technology with an integrated driver and thermal management design. The LR6-18L is available in warm or neutral color temperatures and has a variety of trim options. It easily installs into Cree 6" inch LED housing or may be retrofitted with a 6" inch LED adapter.  
Applications: Commercial new construction and retrofit.

Performance Summary  
Utilizes Cree TrueWhite™ Technology  
Active Color Management  
Delivered Light Output: 1800 lumens  
Input Power: 20 watts  
CRI: 90  
CCT: 2700K, 3000K, 3500K, 4000K  
Limited Warranty: 10 years  
Lifetime: Designed to last 60,000 hours  
Dimming: Dimmable to 50%  
Suitable for non-insulated ceilings only

Accessories	Description	Order Number	Order Number
Accessories are field installed.			
Accessories are field installed.			
Accessories are field installed.			
Accessories are field installed.			
Accessories are field installed.			



Ordering Information	Series	Light Output	Color Temperature	Voltage	Version	Options
Series	LR6-18L	1800 lumens	2700K, 3000K, 3500K, 4000K	120V, 277V	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	None
Series	LR6-18L	1800 lumens	2700K, 3000K, 3500K, 4000K	120V, 277V	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	None
Series	LR6-18L	1800 lumens	2700K, 3000K, 3500K, 4000K	120V, 277V	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	None
Series	LR6-18L	1800 lumens	2700K, 3000K, 3500K, 4000K	120V, 277V	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	None

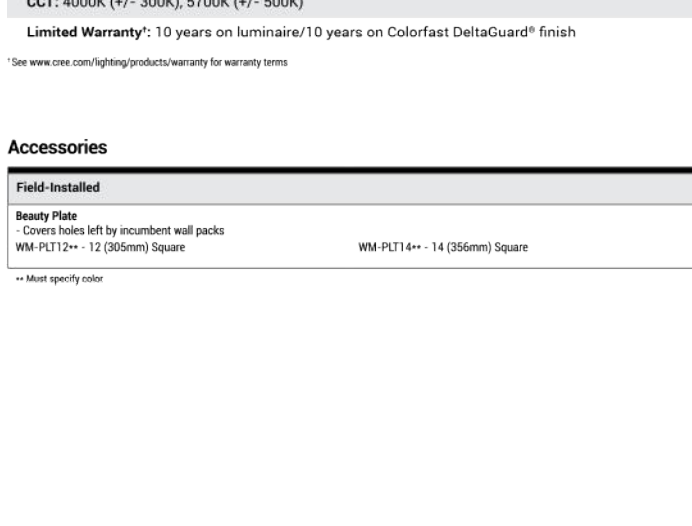
Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_  
Catalog # \_\_\_\_\_  
LSI INDUSTRIES INC.

## XSP Series

**XSPW™ LED Wall Mount Luminaire**  
The XSPW™ LED wall mount luminaire has a slim, low profile design intended for outdoor wall mounted applications. The rugged lightweight aluminum housing and mounting box are designed for installation over standard and mud ring single gang 4 boxes. The luminaire allows for through-wire or conduit entry from the top, bottom, side and rear. The housing design is intended specifically for LED technology including a lightweight LED driver compartment and thermal management. Other design features include leading NanoOptic® Precision Delivery Grid® system in multiple distributions. Applications: General area and security lighting.

Performance Summary  
Utilizes BetaLED® Technology  
NanoOptic® Precision Delivery Grid® optic  
Made in the U.S.A. of U.S. and imported parts  
CIE: Minimum 70 CRI  
CCT: 3000K (4), 3500K, 5000K (4), 5000K  
Limited Warranty: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish  
See [www.cree.com/lightingproducts/warranty](http://www.cree.com/lightingproducts/warranty) for warranty terms.

Accessories	Description	Order Number	Order Number
Accessories are field installed.			
Accessories are field installed.			
Accessories are field installed.			
Accessories are field installed.			
Accessories are field installed.			



Ordering Information	Series	Light Output	Color Temperature	Voltage	Version	Options
Series	XSPW	1800 lumens	2700K, 3000K, 3500K, 4000K	120V, 277V	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	None
Series	XSPW	1800 lumens	2700K, 3000K, 3500K, 4000K	120V, 277V	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	None
Series	XSPW	1800 lumens	2700K, 3000K, 3500K, 4000K	120V, 277V	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	None
Series	XSPW	1800 lumens	2700K, 3000K, 3500K, 4000K	120V, 277V	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	None

Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_  
Catalog # \_\_\_\_\_  
LSI INDUSTRIES INC.

## MANUFACTURER SPECIFICATION SHEET FOR CANOPY FIXTURE

## MANUFACTURER SPECIFICATION SHEET FOR BUILDING FIXTURE 'WALL'