

Redevelopment Commission Agenda Item

DATE: December 15, 2016

FROM: Brian Pawlowski, Interim Executive Director

SUBJECT: Budget Request: Fire Station #4

The City of South Bend is making vital improvements to its infrastructure, including the upgrading of existing services building stock. The age/condition/configuration at some existing facilities are such that reuse and modification of the facility isn't feasible, as is the case with Fire Station # 4 on Olive St. As such, the City is planning a new, replacement Fire Station #4 facility on the same parcel where the existing station is located.

The new Station #4 has been designed to become the City of South Bend's first LEED Silver certified building. The existing station has served both as a residential facility and as a maintenance facility for department vehicles since 1973. The new Station #4 will be located immediately north of the existing facility, and after demolition of the existing building, the remainder of the block will form a new fire station/neighborhood greenspace, maintained by the Station, as an outreach to its immediate community neighbors.

Station #4 will be a two-story, 8,200 square foot residential station accommodating three crews of eight, with a two-bay drive-thru Apparatus Bay housing one engine and one ambulance. The apparatus bay has been designed, however, to accommodate two ambulances and one aerial (ladder) truck as the need arises.

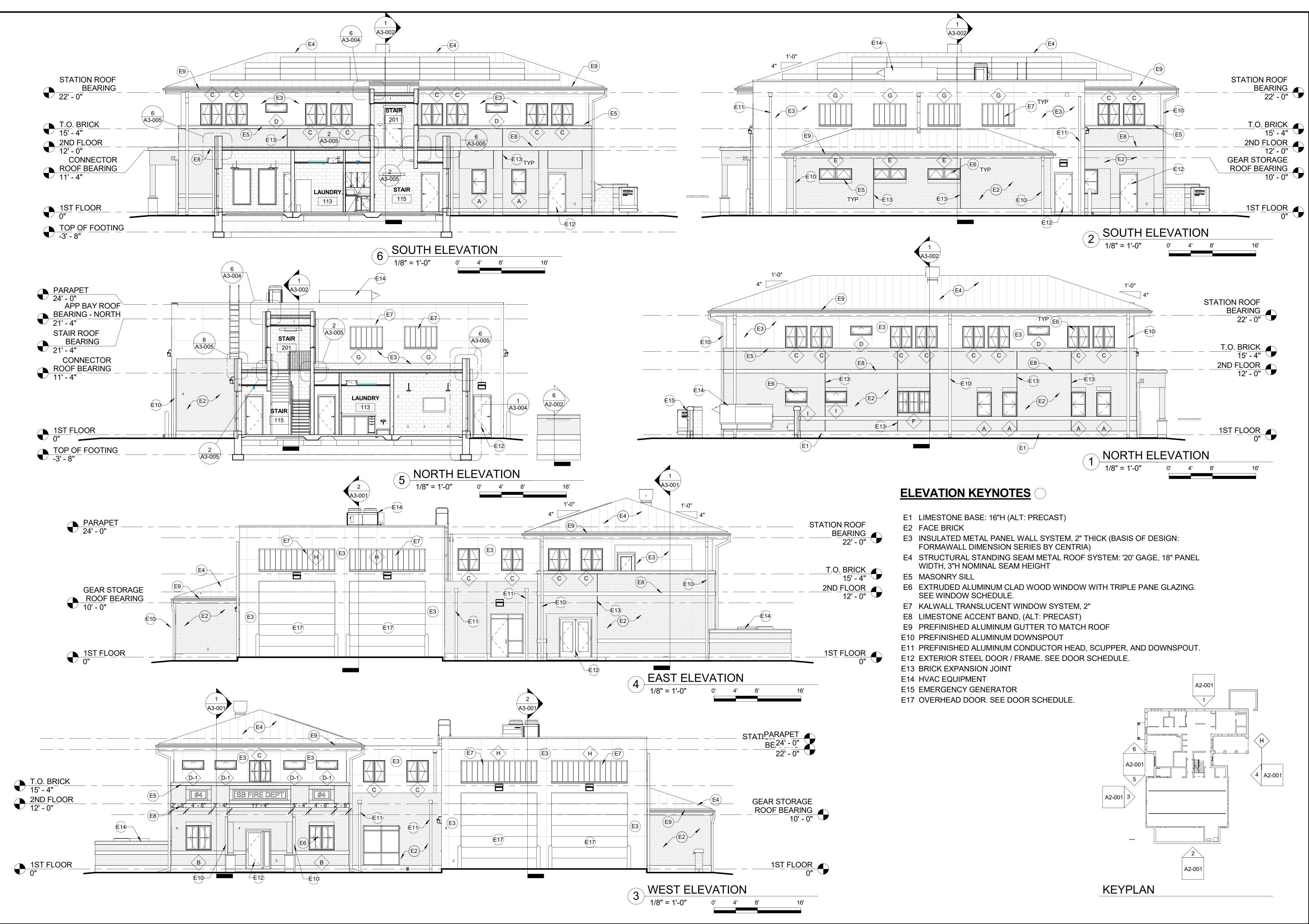
The architecture of the station has been designed to reflect and enhance its immediate neighborhood. Using both traditional brick masonry and a contemporary metal panel system, the building will display the nature of the station as a "home" and the station as a center of the latest in firefighting technology. While not being entirely visible from the surrounding streets, the station will also include a 325 watt, 72 cell solar panel array for power production.

The mechanical, electrical, and plumbing systems, being designed to a LEED Silver standard, will utilize the new and efficient systems to minimize its carbon footprint. Some of these innovations include a direct digital facility management system that will control the HVAC systems and the interior and exterior lighting, utilizing all LED fixtures with vacancy and daylighting sensors. In addition, the station will be fully equipped with an automatic sprinkler system.

The site layout of the station has been designed to minimize its footprint, while accommodating the drive-thru apparatus bay's front and rear aprons. This drive-thru approach should limit hazards common to the existing station of relying on stopping traffic on Olive Street and the backing-up of fire trucks upon each return to the station. There will be 100% water retention on-site, with extensive use of native species planting. An irrigation system has not been included, utilizing strategic placement of bio-swales. Surrounding the new greenspace to the south will be a six foot wide asphalt walking path.

Staff requests a not-to-exceed budget of \$3m from the River West Development Area for the new Fire Station # 4.

INTERNAL USE ONLY: Project Code: <u>16J015</u>
Total Amount new/change (inc/dec) in budget: <u>\$3,000,000</u>; broken down by: Acct #<u>324-1050-460-42.02</u> Amt: <u>TBD</u>; Acct #<u>324-1050-460-31.02</u> Amt: <u>TBD</u>; Acct #<u>324-1050-460-31.06</u> Amt: <u>TBD</u>; Going to BPW for Contracting? Yes Is this item ready to encumber now? <u>NO Existing PO#______Inc/Dec \$______</u>



ARCHITECTURE + PLANNING

300 W JEFFERSON BLVD. SOUTH BEND, IN 46601 574-307-9990 EPOCH-DESIGN.COM

KYLE COPELIN, R.A., LEED-AP

BOARD OF PUBLIC WORKS CITY OF SOUTH BEND, INDIANA

FIRE STATION #4

220 N. OLIVE STREET SOUTH BEND, IN 46628

DD OWNER REVIEW DD SUBMISSION 06/24/2016 90% REVIEW SUBMISSION 07/28/2016 95%OWNER 08/09/2016 REVIEW SUBMISSION 100% INTERNAL 08/23/2016 REVIEW SET 100% OWNER REVIEW SUBMISSION 100% REVIEW 09/13/2016 BIDDING DOCUMENTS

Project number: 16C013

Date: NOVEMBER 8, 2016

Drawn by: NB/RD

Checked by: BK

roject Status:

CONSTRUCTION

DOCUMENTS

et Name:

EXTERIOR ELEVATIONS

Sheet Number:

A2-001

Scale: As indicated

LEGAL DESCRIPTION:

LOT 82A OF THE RECORDED PLAT OF OAK GROVE FIRST ADDITION FIRE STATION REPLAT AS RECORDED BY DOCUMENT NUMBER 0378563 IN THE OFFICE OF THE RECORDER OF ST. JOSEPH COUNTY, INDIANA.

TABULATED SITE DATA:

1). ACREAGE OF TABULATED DATA AREA. ...2.44 AC.

2). PROPOSED LAND USE: FIRE STATION

3). USE BY SQUARE FOOTAGE: FIRE STATION: FIRST FLOOR.. .5,856 SQ.FT. SECOND FLOOR.

GARAGE: ..1,808 SQ.FT. FIRST FLOOR.

4). PARKING RATIO REQUIRED BY ORDINANCE: ONE (1) PARKING SPACE PER ON-DUTY EMPLOYEE.

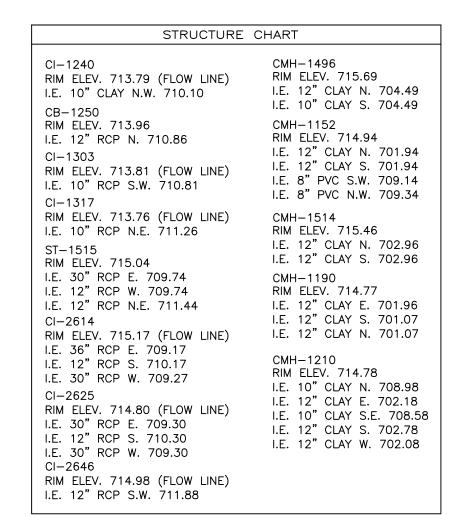
> ..8 SPACES TOTAL SPACES REQUIRED =10 SPACES TOTAL SPACES PROVIDED=.

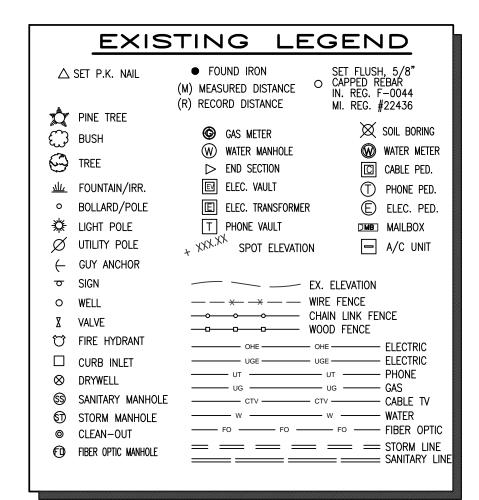
5). PROPOSED LAND COVERAGE: PAVEMENT/PARKING.. .10,091 9.49 CONCRETE WALKING PATH **OPEN SPACE**

6). MAIN BUILDING SHOWN IS 2 STORY.

- 7). GARAGE SHOWN IS 1 STORY.
- 8). BUILDING TO CONNECT TO SOUTH BEND UTILITIES

9). DRIVEWAY OPENINGS WILL CONFORM TO THE LATEST CITY OF SOUTH BEND STANDARDS..





GENERAL SURVEY DISCLAIMER NOTES:

THE INFORMATION SHOWN ON THIS DRAWING IS INTENDED FOR THE CLIENT ONLY. ANY REUSE WITHOUT WRITTEN VERIFICATION AND ADAPTATION BY THE LAND SURVEYOR FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE LAND SURVEYOR.

ANY UTILITY OR EASEMENT LOCATIONS, IF SHOWN, ARE APPROXIMATE. THE CLIENT MUST FIELD VERIFY UTILITY LOCATIONS WITH THE RESPECTIVE UTILITY COMPANY. THIS LAND SURVEYOR ASSUMES NO LIABILITY FOR THE ACCURACY OF THE LOCATION OR SIZE OF EXISTING UTILITIES OR THE EXISTENCE OR NONEXISTENCE OF ADDITIONAL UNDERGROUND UTILITIES OR STRUCTURES.

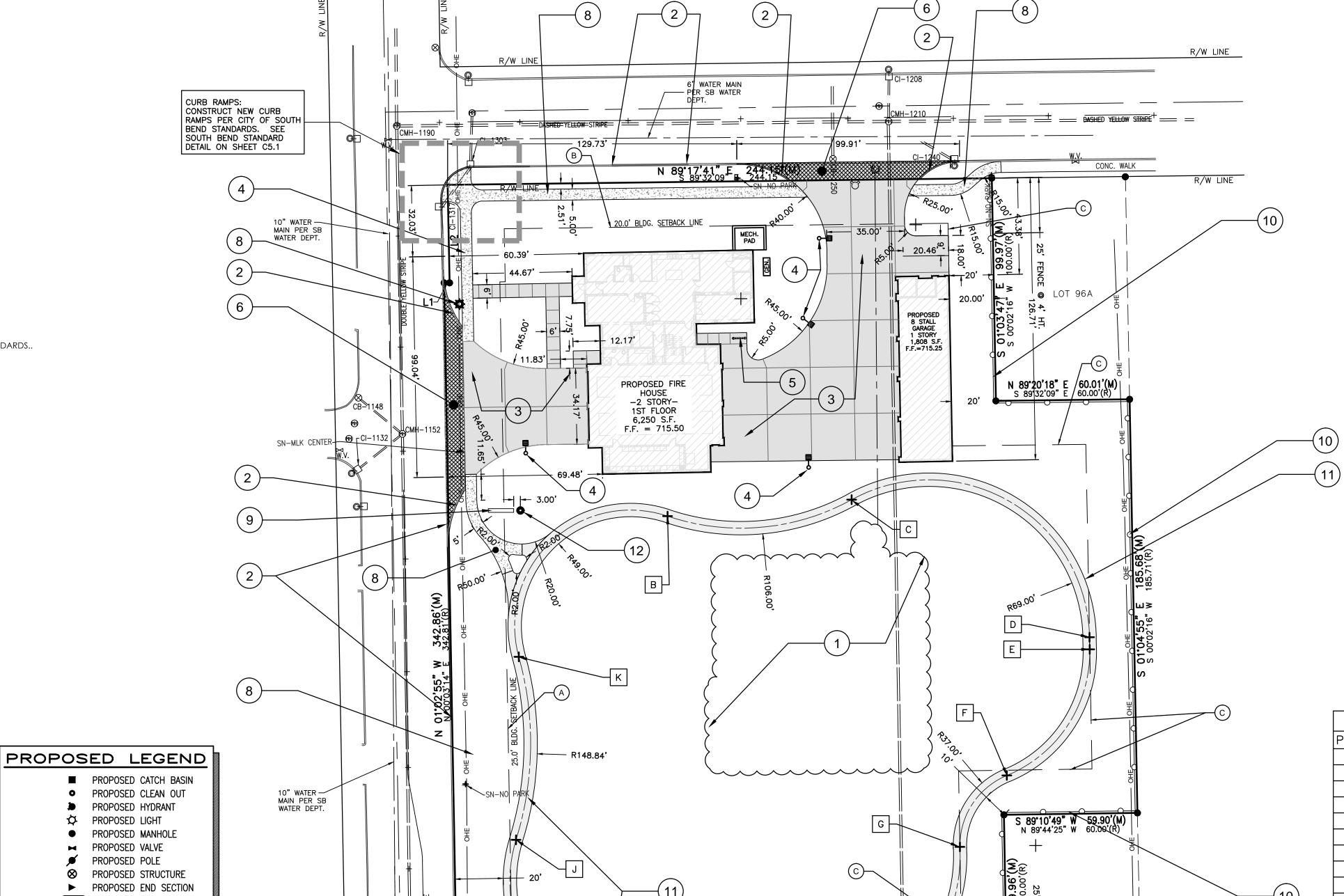
NO IMPROVEMENTS SHOULD BE MADE ON THE BASIS OF THIS PLAT ALONE. FIELD MONUMENTATION OF CRITICAL POINTS SHOULD BE ESTABLISHED PRIOR TO COMMENCEMENT OF ANY AND ALL CONSTRUCTION. FOR BUILDING LINES, EASEMENTS AND OTHER RESTRICTIONS NOT SHOWN HEREON REFER TO YOUR DEED, ABSTRACT, TITLE POLICY, CONTRACTS AND LOCAL BUILDING, ZONING AND SUBDIVISION ORDINANCES.

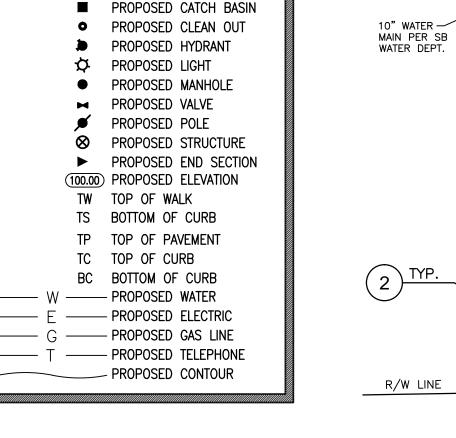
UNLESS SPECIFICALLY SHOWN HEREON, THIS SURVEY DOES NOT PURPORT TO INDICATE THE PRESENCE OR ABSENCE OF WETLANDS AND HAZARDOUS OR ENVIRONMENTALLY INJURIOUS MATERIALS. THE SURVEYOR EXPRESSLY DISCLAIMS ANY RESPONSIBILITY OR LIABILITY FOR THE

ANY INFORMATION ON THIS DRAWING IS NOT INTENDED TO BE SUITABLE FOR REUSE BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSION OF THIS PROJECT OR FOR ANY USE ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION AND ADOPTION BY THE ENGINEER. ARCHITECT OR SURVEYOR FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ENGINEER, ARCHITECT OR SURVEYOR.

FINAL SITE PLAN - SOUTH BEND FIRE STATION #4

PART OF THE NORTHEAST QUARTER OF SECTION 10, TOWNSHIP 37 NORTH, RANGE 2 EAST, CITY OF SOUTH BEND, PORTAGE TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.





CURB RAMPS:

CONSTRUCT NEW CURB

BEND STANDARDS. SEE

SOUTH BEND STANDARD

DETAIL ON SHEET C5.1

R/W LINE

TW TOP OF WALK

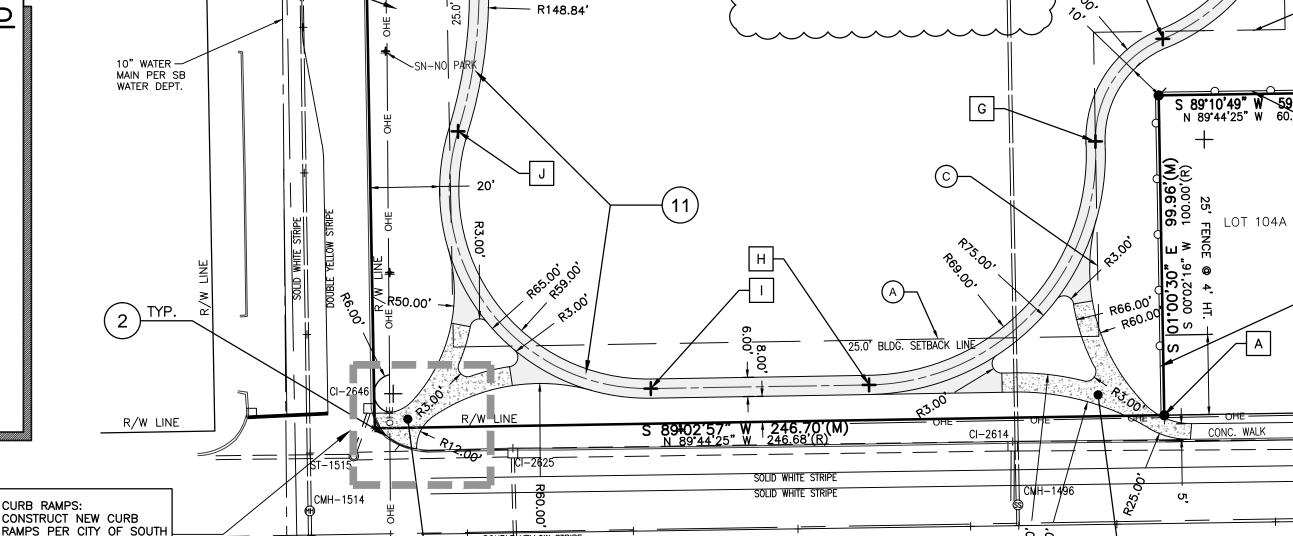
TS BOTTOM OF CURB

TP TOP OF PAVEMENT

BC BOTTOM OF CURB

TC TOP OF CURB

----- W ------ PROPOSED WATER



SOLID WHITE STRIPE

SOLID WHITE STRIPE



A 25.0' FRONT-YARD SETBACK LINE B 20.0' SIDE-YARD SETBACK LINE

C 20.0' REAR-YARD SETBACK LINE

L1 M N 89°43'04" E 2.44'

1 R N 89°32'09" F L2 R N 00°03'14" E 44.00'

R/W LINE

CIVIL CITY OF SOUTH BEND DANCH, HARNER & ASSOCIATES, INC. 227 WEST JEFFERSON BLVD.

SUITE 1200

SOUTH BEND, IN. 46601

SOLID WHITE STRIPE

SOLID WHITE STRIPE

SURVEYORS & ENGINEERS: 1643 COMMERCE DRIVE SOUTH BEND, IN. 46628 (574) 234-4003 ATTN: MICHAEL DANCH

R/W LINE

R/W LINE

DOUBLE YELLOW STRIPE

SITE LOCATION MAP KEY NOTES/LEGEND: EXISTING FIRE STATION TO BE DEMOLISHED AFTER CONSTRUCTION IS COMPLETED FOR THE PROPOSED FIRE STATION. PROPOSED 6" CONCRETE CURB (TYPICAL). REPLACE AS NECESSARY IN CONJUNCTION WITH SIDEWALK REPLACEMENT AND NEW DRIVEWAY CONST. SEE DETAIL ON SHEET C5.2. USE CITY OF SOUTH BEND STANDARD

PROPOSED HEAVY DUTY CONCRETE PAVEMENT IN ALL AREAS. SEE DETAIL ON SHEET C5.2.

SITE LIGHTING: SEE ELECTRICAL SHEET E1-000 FOR LIGHTING PLAN. PLACE LIGHT BASES 2' BEHIND BACK OF CURB. SEE LIGHT BASE DETAIL ON SHEET C5.0.

5 SPACE BIKE RACK. DuMor, Inc. 1-800-598-4018 MODEL: 125 SERIES BIKE RACK. COLOR: BLACK WITH POWDER COAT FINISH INSTALL USING SURFACE MOUNT DETAIL PER MANUFACTURER. SEE DETAIL ON SHEET C5.1.

CONCRETE DRIVEWAY APPROACH PER SOUTH BEND ENGINEERING STANDARDS.

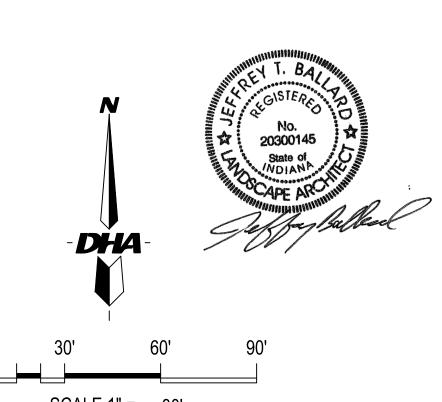
RELOCATED CITY LIGHT POLE. (BY OTHERS)

ALTERNATES:

- PROPOSED SIDEWALK TO REPLACE/IMPROVE CITY SIDEWALKS. USE SOUTH BEND CITY STANDARD FOR REPLACEMENT SIDE WALKS AND ACCESSIBLE CURB RAMPS. SEE DETAIL ON SHEET C5.2. (ALTERNATE)
- PROPOSED MONUMENT SIGN. SEE ARCHITECTURAL SHEETS FOR DETAILS.
- (10) PROPOSED 4' & 6' TALL ORNAMENTAL FENCE: FENCE MUST BE 4' TALL FOR THE FIRST 25' INTO THE PROPERTY OFF ORANGE STREET AND LINDEN AVE., THEN IT CAN EXTEND TO 6' IN HEIGHT AMERISTAR, INC. OR EQUAL MODEL: ECHELON PLUS MAJESTIC ¾ RAIL W/ RING OPTION SEE DETAIL ON SHEET C5.1.
- (11) PROPOSED 6' WIDE ASPHALT WALKING PATH. 849.00 FEET LONG. (849' LONG = 0.16 MILE: $6\frac{1}{4}$ LAPS = 1 MILE) SEE DETAIL ON SHEET C5.2.
- (12) PROPOSED FLAGPOLE: SEE ARCHITECTURAL PLANS AND SPECIFICATIONS

WALKING PATH LAYOUT — RADIUS ENDPOINT LOCATIONS			
POINT	NORTH (Y)	EAST (X)	DESCRIPTION
Α	0.00	0.00	SOUTHEAST PROPERTY CORNER
В	234.00	-152.69	RADIUS ENDDPOINT
C	241.39	-70.08	RADIUS ENDDPOINT
D	179.69	36.64	RADIUS ENDDPOINT
E	174.23	36.75	RADIUS ENDDPOINT
F	117.60	-0.44	RADIUS ENDDPOINT
G	85.55	-21.51	RADIUS ENDDPOINT
Н	9.47	-92.23	RADIUS ENDDPOINT
	8.34	-160.43	RADIUS ENDDPOINT
J	88.70	-220.67	RADIUS ENDDPOINT
K	170.85	-219.42	RADIUS ENDDPOINT

• WIDTH BETWEEN CONCRETE SCORING LINE NOT TO EXCEED 25 TO 30 TIMES THE DEPTH OF CONCRETE.



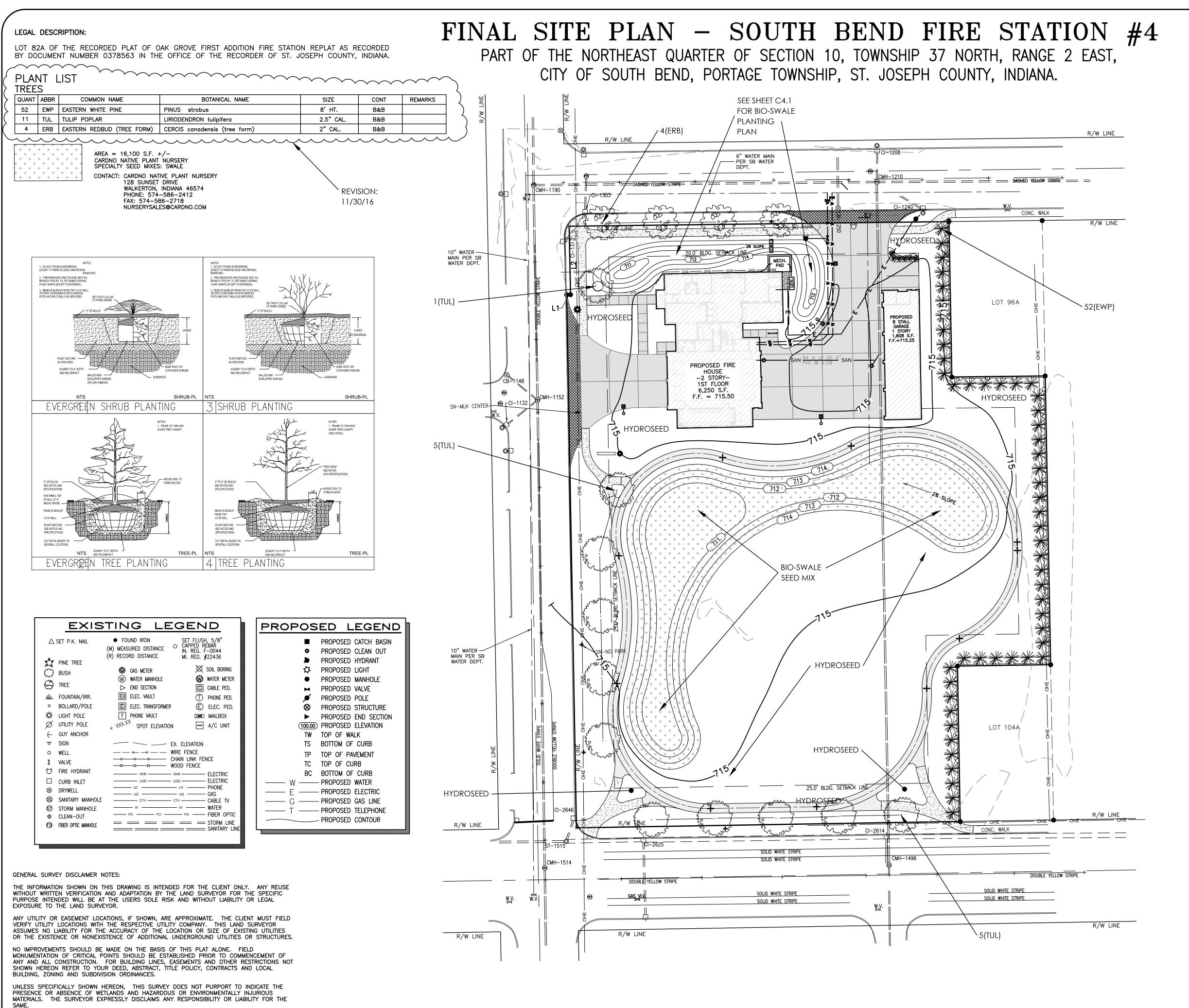
SCALE 1" = 30' SITE LAYOUT PLAN

REVISIONS JTB CHECKED BY: | DATE | BY 9-21-16| JTB | PER CITY COMMENTS, REMOVED WALKS ALONG ORANGE AND OLIVE RD., ADDED SIDEWALK CONNECTIONS TO THE WALKING PATH, CHANGED WALKING PATH MATERIAL FILE # PROJ. MANGR: FROM CONCRETE TO ASPHALT. 12/8/16 JTB KEYNOTE 10 WAS CHANGED TO AMERISTAR FENCE

SHEET

CONTRACTOR BEFORE ANY CONSTRUCTION MAY BEGIN.

ALL UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE



L1 M N 89°43'04" E

L2 R N 00°03'14" E 44.00'



SILE LOCATION M

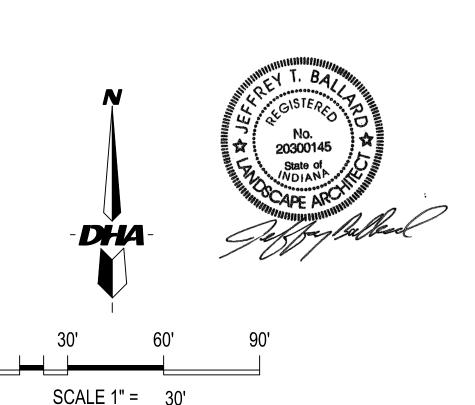
GENERAL LANDSCAPE NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES AND VERIFY LOCATION OF ALL PRIVATE
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL SITE CONDITIONS WHICH MAY EFFECT THE LANDSCAPE PLANT MATERIALS AND SITE AMENITY INSTALLATION. CONTRACTOR ALSO MUST NOTIFY LANDSCAPE ARCHITECT OF CONDITIONS THAT MAY BE DETRIMENTAL TO HEALTHY PLANT DEVELOPMENT, OR MAY CAUSE VOID TO PLANT WARPANITY.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL LANDSCAPE MATERIALS IN ACCORDANCE WITH THE LATEST EDITION OF THE "USA STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERY MEN, INC.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF (1) YEAR GUARANTEE FOR ALL PLANT MATERIALS FROM THE DATE OF SUBSTANTIAL COMPLETION. ANY DEAD PLANT MATERIALS SHALL BE REPLACED WITH MATERIAL EQUAL IN SIZE AND QUALITY AS LISTED IN THE MASTER PLANT LIST. ALL COST FOR REPLACING PLANT MATERIALS WITHIN THE GUARANTEE PERIOD WILL BE AT THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER WORK DISCIPLINES TO ENSURE NO CONFLICT BETWEEN WORK TYPES.
- 6. ALL DECIDUOUS TREES AND EVERGREEN TREES SHALL BE BALLED AND BURLAP UNLESS OTHERWISE NOTED.
- 7. ALL SHRUBS MAY BE CONTAINER GROWN OR BALLED AND BURLAP.
- 8. THE CALIPER SIZE LISTED ON THE MASTER PLANT LIST INDICATES THE DIAMETER OF THE TRUNK TAKEN AT 6" ABOVE THE GROUND LEVEL.
- 9. SPACE PLANT MATERIALS AS INDICATED ON MASTER PLANT LIST OR PER PROPER HORTICULTURAL
- 10. CONTRACTOR SHALL PROVIDE A TWO YEAR STRAIGHTENING GUARANTEE IN LIEU OF STACKING AND GUYING TREES.
- 11. CONTRACTOR SHALL VERIFY QUANTITIES OF PROPOSED PLANT MATERIALS AND SITE AMENITIES SHOW ON THE MASTER MATERIALS LIST AND PLANS. IF A DISCREPANCY APPEARS, THE ACTUAL COUNT ON THE PLANS SHALL BREVALL
- 12. KEEP BALLED AND CONTAINER PLANT MATERIAL WATERED UNTIL THEY ARE PLANTED. IF PLANTS CANNOT BE PLANTED IMMEDIATELY, THEY SHOULD BE HEELED IN AND COVERED WITH MULCH UNTIL TIME OF PLANTING.
- 13. CONDUCT SOILS TEST TO VERIFY FERTILITY OF TOPSOIL. AMEND SOIL IF PH IS LESS THAN 5.0 OR GREATER THAN 7.5.

 MAKE OTHER ADJUSTMENTS AS SOIL ANALYSIS INDICATES. ALL FINE GRADE SOIL PREPARATION OF PLANTINGAND
 LAWN AREAS SHALL BE PERFORMED BY THE LANDSCAPE CONTRACTOR UNLESS OTHERWISE SPECIFIED.
- 14. TOPSOIL DEPTH TO BE A MINIMUM OF 6" IN ALL PLANTING BEDS AND 3" IN LAWN AREAS. GENERAL CONTRACTOR IS TO SUPPLY TOPSOIL TO THESE STANDARDS AND PROVIDE FINISH GRADE. LANDSCAPE CONTRACTOR TO PROVIDE FINAL GRADE FOR SEED APPLICATION AND PLANT MATERIAL INSTALLATION. TOPSOIL TO BE CLEAN FRIABLE LOAM FROM LOCAL SOURCE AND FREE FROM STONES AND DEBRIS OVER 3/4" IN DIAMETER. TOPSOIL MUST BE FREE FROM TOXINS AND HERBICIDES.
- 15. LANDSCAPE BEDS SHALL BE DEFINED BY COMMERCIAL GRADE 5" BLACK VINYL EDGING, PRODUCED BY AN ESTABLISHED MANUFACTURER OR APPROVED EQUAL.
- 16. LANDSCAPE BEDS TO RECEIVE 3"- 4" INDUSTRY STANDARD SHREDDED HARDWOOD BARK MULCH.
- 17. ALL TREES NOT INCORPORATED INTO THE LANDSCAPE BEDS ARE TO RECEIVE A 3' RADIUS MULCH RING, 3" DEEP
- 18. APPLY PRE-EMERGENT HERBICIDE TO ALL LANDSCAPE BEDS PRIOR TO MULCHING.
- 19. HYDROSEED: INSTALL HYDROSEED PER COMMON INDUSTRY STANDARDS WHERE INDICATED ON PLANS.

 SEED MIXTURE:

 37.50% PERENIAL RYE
 - 31.00% KENTUCKY BLUE 31.50% CREEPING RED FESCUE
- 20. SOD: INSTALL SOD WHERE INDICATED ON PLANS. SOD SHALL BE A KENTUCKY BLUEGRASS CULTIVAR-'COLUMBIA' OR APPROVED EQUAL, GROWN FROM A LOCAL SOURCE.



SHEET

OVERALL SITE LANDSCAPE PLAN

SURVEYORS & ENGINEERS:

DANCH, HARNER & ASSOCIATES, INC.

1643 COMMERCE DRIVE

SOUTH BEND, IN. 46628

ATTN: MICHAEL DANCH

(574) 234-4003

CIVIL CITY OF SOUTH BEND

227 WEST JEFFERSON BLVD.

SUITE 1200

SOUTH BEND, IN. 46601

DATE
10-8-16

SCALE
1"= 30'

FILE #
160166.5

DRAWN BY:
JTB

REVISIONS

REVISIONS

REVISIONS

REVISIONS

CONTRACTOR BEFORE ANY CONSTRUCTION MAY BEGIN.

OR LEGAL EXPOSURE TO THE ENGINEER, ARCHITECT OR SURVEYOR.

ALL UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE

ANY INFORMATION ON THIS DRAWING IS NOT INTENDED TO BE SUITABLE FOR REUSE

BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSION OF THIS

SPECIFIC PURPOSE INTENDED WILL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY

PROJECT OR FOR ANY USE ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION AND ADOPTION BY THE ENGINEER, ARCHITECT OR SURVEYOR FOR THE